

USAFETAC/TN-89/007







THE CARIBBEAN BASIN

A REFRACTIVITY STUDY

by

Capt Robert J. Farrell, Jr.

DECEMBER 1989

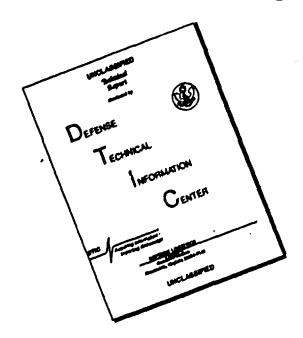
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REVIEW AND APPROVAL STATEMENT

USAFETAC/TN-89/007, *The Caribbean Basin--A Refractivity Study*, December 1989, has been reviewed and is approved for publication.

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30 December 1989

REPORT DOCUMENTATION PAGE

- 2. Report Date: December 1989
- 3. Report Type: Technical Note
- 4. Title: The Caribbean Basin--A Refractivity Study
- Performing Organization Report Number: USAFETAC/TN-89/007
- 6. Author: Capt Robert J. Farrell, Jr.
- 7. <u>Performing Organization Name and Address:</u> USAF Environmental Technical Applications Center (USAFETAC), Scott AFB, IL 62225-5438
- 8. Performing Organization Report Number: USAFETAC/TN-89/007
- 12a. Distribution/Availability Statement: Approved for public release; distribution is unlimited.
- 13. Abstract: A descriptive climatology of atmospheric refractivity in the Caribbean Basin, prepared from USAFETAC'S upper-air climatic database. Climatologies are provided by season and by hour. Actual climatologies (in an appendix) are preceded by a review of refractivity theory, a discussion of the meteorology of anomalous propagation, an explanation of the presentation scheme, and a summary of the climatologies.
- 14. <u>Subject Terms:</u> *ATMOSPHERIC REFRACTIVITY, *CLIMATOLOGY, *METEOROLOGY, CARIBBEAN BASIN, index of refraction, anomalous propagation, subrefraction, superrefraction, ducting, trapping.
- 15. Number of Pages: 351
- 17. Security Classification of Report: UNCLASSIFIED
- 18. Security Classification of this Page: UNCLASSIFIED
- 19. Security Classification of Abstract: UNCLASSIFIED
- 20. Limitation of Abstract: UL

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PREFACE

This report was prepared by the USAF Environmental Technical Applications Center's (USAFETAC's) System Support Section (ECA) for 5WW/DNC, Langley AFB, VA 23665-5000, under Project 70332 as part of a larger request for a comprehensive climatology of the Caribbean Basin. The report provides a descriptive climatology of refractivity in that region. It completes USAFETAC's total Caribbean Basin climatology study, which consists of USAFETAC/TN-89/003, The Caribbean Basin--A Climatological Study; USAFETAC/TN-89/004, The Caribbean Basin--An Electrooptical Climatology for the 8-12 Micron Band, Volume 1--Central America; USAFETAC/TN-89/005, The Caribbean Basin--An Electrooptical Climatology for the 8-12 Micron Band, Volume III-The West Indies; and USAFETAC/TN-89/006, The Caribbean Basin--An Electrooptical Climatology for the 8-12 Micron Band, Volume III--Northern South America.

The efficiency of many modern weapons, surveillance, and communications systems relies on the propagation of electromagnetic radiation through the atmosphere: the effectiveness of these systems can be significantly impaired by anomalous refractivity profiles. Dependable climatology and accurate anomalous propagation forecasts (specifically, vertical profiles of critical refractivity variables) are becoming increasingly mission-critical and must be made available to those who plan for and use these kinds of systems. The use of combat air power, in particular, is dependent upon sound knowledge of atmospheric propagation conditions.

Using USAFETAC's limited upper-air database and software developed in-house, ECA prepared refractivity climatologies for 31 stations in the Caribbean Basin; periods of record depended on data availability. Seventeen of those climatologies are provided here by season (as defined in USAFETAC/TN-89/003), by hour, and by height. Before the report discusses actual regional refractivity climatology, it provides a review of refractivity theory and the meteorology of anomalous propagation.

There have been three important changes in methodology since producing the first refractive climatology (for the Persian Gulf). These changes are:

- 1. The definitions of "percent occurrence frequency" (POF) in Tables C and D have been changed. In the Persian Gulf study, each 30-meter (or 50-meter, above 5,000 meters) layer was counted as a separate occurrence (up to 33 observations per sounding, per layer). In this study, each sounding accounted for only one occurrence. As a result, the new definition of POF can be translated directly into percent time of occurrence.
- 2. A map depicting the three AP categories has been added to Appendix A.
- 3. Height increments have been changed to increase resolution in the lower 5,000 feet. Labeling of tables was changed to emphasize the fact that the statistics are for a given *layer*, rather than for a *height*.

Although USAFETAC/ECA hopes that the data will be useful for both planning and operational forecasting, our second attempt to produce a refractivity climatology should still be considered *experimental*. Comments, suggestions, or criticisms will help us refine the formats into a more useful and workable operational tool and are welcome. Contact USAFETAC/ECA, Scott AFB, IL 62225-5438, DSN-576-5944.

The author wishes to thank SSgt Catherine Bird for assembling the large appendices this work required--it was a monumental and tedious job.

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Chapter 1

REVIEW OF REFRACTIVITY THEORY

General Discussion. The transmission of electromagnetic (EM) signals through a medium is affected by the absorption and re-emission of EM energy by the atomic and molecular elements of that medium. The dielectric constant (ε) can be used to describe these effects; it is expressed as:

$$\mathbf{\varepsilon} \equiv (c/v)^2 \tag{1}$$

where c is the phase speed in a vacuum (i.e., the speed of light) and v is the phase speed in the medium. But rather than deal with velocity, physicists prefer to use an "index of refraction" (n), expressed as:

$$n = c/v = \sqrt{\varepsilon} \tag{2}$$

The index of refraction in a vacuum is unity. The index of refraction of air at radio frequencies is approximately 1.000326. Atmospheric values are so near unity that it is more convenient to use "refractivity" (N), the number of parts per million by which n exceeds unity. N is expressed as:

$$N \equiv (n-1) \cdot 10^6 \tag{3}$$

A generally accepted relationship for the dependence of atmospheric refractivity on the state variables is expressed as:

$$N = 77.6P/T + 3.73 \cdot 10^5 \, e/T^2 \tag{4}$$

where: P = pressure (mb)

T = temperature(K)

e = water vapor pressure (mb)

This empirical equation is correct to within 0.5% for atmospheric pressures between 200 and 1,100mb, temperatures between 240 and 310K, water vapor pressures less than 30mb, and radio frequencies less than 30GHz (Bean and Dutton, 1966). Outside the absorption bands of oxygen and water vapor, it is generally usable for frequencies up to 1,000GHz (Hall, 1979).

As an EM ray passes through a surface that separates two media of differing dentities, most of the energy in

scattered in the forward direction, but at an angle to the incident ray. The amount of deflection is described by Snell's Law:

$$\frac{\sin \theta_1}{\sin \theta_2} = \frac{n_2}{n_1} \tag{5}$$

where θ_t is the angle of incidence upon the surface and θ_2 is the angle of refraction. Therefore, the amount of deflection is proportional to the ratio of refractivities of the two media. See Figure 1.

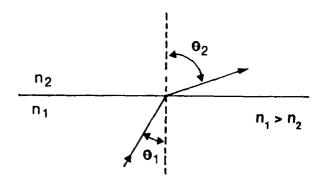


Figure 1. Snell's Law Schematic.

Since refractivity is dependent on pressure, temperature, and moisture (see Equation 4), and since these state variables vary throughout the troposphere, there are gradients of refractivity and, as a consequence, EM rays bend as they pass through the troposphere. Since the state variables usually vary much less in the horizontal than in the vertical, horizontal gradients of refractivity are usually negligible compared to those in the vertical. But sharp transitions in topography, such as coastlines or desert-plateaus, can produce large horizontal gradients, and often do. This condition poses significant problems in forecasting refractivity profiles.

Even under normal conditions, the vertical gradients in refractivity caused by changes in P, T, and e with altitude produce some bending of the path of an EM ray. Under certain atmospheric conditions, excessive bending can seriously limit performance of systems that use electromagnetic radiation. Under extreme conditions, the rapidly varying refractivity in the troposphere produces extreme bending that can trap the energy in a duct and channel it over great distances, a phenomenon that may or may not be advantageous.

An important point to note is that the time constant (lag) of radiosonde instruments causes underestimations of the rate of change of refractivity with altitude. When a radiosonde passes rapidly through layers of markedly different refractivity (as when it goes in and out of cloud layers), the resulting observation might not show the presence of a refractivity gradient that could impair a system's performance. Extreme care, therefore, must be taken when analyzing such data. Tests comparing radiosonde and refractometer data indicate that any study of the frequency of occurrence and strength of radio ducting using synoptic data will underestimate the frequency for ducts with thicknesses less than 900 feet and the strength of ducts in general (Morrissey et al., 1986).

Another problem in using radiosonde data to produce refractivity climatologies is that the data is generally collected at only two fixed times: 0000Z and 1200Z.

These times, unfortunately, seldom reflect full diurnal changes and there is no assurance that local times coincide with periods of minimum, average, or maximum refractive gradients. Chapter 3 discusses how this problem affects the Caribbean Basin.

The four categories of refraction (standard, subrefractive, superrefractive, and ducting) are identified on the basis of change in refractivity through a given layer in the troposphere. They were selected on the basis of the effect they have on an EM ray propagating through a layer. Anything other than "standard" refraction is referred to as anomalous propagation, or "AP." The numerical break-out shown in Table 1 was adopted for this study because it seems to be the most widely used. Keep in mind, however, that breakouts may differ in other studies and in other applications. Chapter 2 discusses meteorological conditions conducive to the formation of each refractivity category.

TABLE 1. Refractivity Categories. Units are refractivity units per kilometer. M is a modified refractivity derived to simplify duct detection--see page 3.

Standard	Subrefraction	Superrefraction	Ducting
$-100 < dN/dh \le 0$	$0 < dN \cdot dh$	$-157 \cdot dN/dh \le -100$	dN/dh ≤-157
$57 < dM/dh \le +157$	+157 < dM/dh	$0 < dM/dh \le 57$	$dM/dh \le 0$

Standard (or normal) refraction is defined as the condition that exists when dN dh within a tropospheric layer is approximately equal to that observed in the standard atmosphere (between 0 and -100 N-units/Km). Rays propagating through a layer with a standard gradient will bend downward slightly and result in a radio horizon that is slightly greater than the optical horizon (See Figure 2). This means that a radar can "see" farther than an optical device under standard atmospheric conditions. This curvature would appear to be straight if the earth's radius were 4/3 of what it actually is: hence the reason for the "4/3 earth concept" advanced by Schelleng, Burrows, and Ferrell in 1933. This concept assumes an earth larger than actual and allows radio rays to be drawn as straight, rather than curved, as would be necessary on an earth with true radius. This method of for atmospheric accounting refraction permits tremendous simplification in the computation of radio field strengths even though the distribution of refractivity

(linear with height) implied by this method is realistic only in the bottom kilometer of the atmosphere.

Subrefraction is defined as a condition during which $dN \cdot dh$ within a layer is positive: that is, N increasing with height. EM rays in the radio-wave portion of the spectrum that are propagated through a subrefractive layer are bent downward less than would occur in the standard atmosphere and may even curve upward, as shown in Figure 2. The effects of subrefraction are largely dependent on the geometry of the propagation In general, greatly shortened ranges are path. experienced on surface-to-surface systems and on surface-to-air systems operating at low elevations. A radar looking through a subrefractive layer at a distant target (i.e., with a low elevation angle) will misinterpret the target will appear to be farther its position: downrange and at a lower altitude than it act. By is,

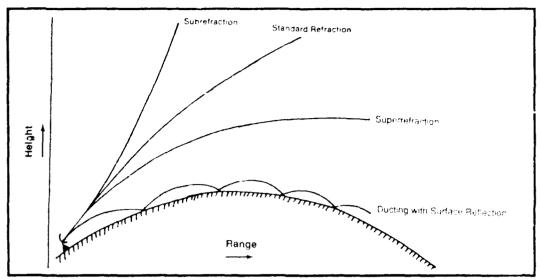


Figure 2. Typical Wave Propagation Through the Atmosphere With Each of the Four Types of Vertical Gradient.

Superrefraction is defined as a condition during which dN dh within a layer is much less than that observed in the standard atmosphere (between 157 and 100 N-units/Km). Rays propagated through a superrefractive layer are bent downward much more than normal, resulting in extended propagation ranges as shown in Figure 2. A radar looking through a superrefractive layer at a distant target (i.e., with a low elevation angle) will also misinterpret its position, but in this case the target will appear to be closer and higher than it actually is. EM rays passing through superrefractive layers will also experience broadening of the beam width. This creates two problems. First, target resolution is diminished. Second, the power that reaches the target is reduced, producing a tower reflectivity than is actually the case.

Ducting (or trapping) is an extreme case of superrefraction that occurs when dN/dh through a layer is less than or equal to -157 N-units/Km. This gradient bends rays toward the earth. EM rays transmitted within the duct will be partially confined and channeled between the duct's top and bottom (the "trapping layer"--see Figure 3). When this occurs, ranges greatly exceed normal coverage. Over water, ducting tends to enhance sea clutter and make it more difficult to discriminate smaller targets just above the sea surface from background noise, especially in the presence of suspended dust and sand. This can result in the intermittent detection of real targets and in the appearance of false targets induced by atmospherics. This definition of ducting can be misleading, however, in that the presence of a ducting gradient is only one of the conditions necessary for actual ducting of EM energy to

occur. In any event, rays propagated through a ducting gradient will be bent downward more than those propagated through a superrefractive one. The specific criteria for actual trapping or "guiding" of the energy in a layer of finite depth is dependent upon four things:

- Refractivity gradient
- *Vertical extent of the layer (thickness)
- Frequency of the EM energy
- Elevation angle of the ray.

Gradient. A modified refractivity was derived to simplify duct detection:

$$M = N + (h/r) \cdot 10^6 \tag{6}$$

where h is the height above the earth surface at which M is calculated, and r is the earth's radius. The property that makes M useful is that its gradient dM/dh is zero at any elevation for which the ray path, transmitted horizontally, is a circular arc concentric with the surface of the earth. Therefore, there are ducts whenever $dM/dh \le 0$.

Assuming the radius of the spherical earth (*t*) to be 6.378 km, there is a simple relationship between *M* and *N* gradients (units per kilometer):

$$dM/dh = dN/dh + 157 \tag{7}$$

There are many other modifications to refractivity. Each is useful for different ray tracing problems and synoptic studies of refractivity, and each results in a partic ar simplification in ray geometry. (For a thorough discussion of these modifications, see Moreland, 1965.) The unmodified refractivity (N) is used in this report because it is a basic physical quantity:

as such, it is more easily understood than the others. For identifying types of ducts, however, *M* is most useful and is therefore employed in the following discussion.

Four different types of ducts can be identified by their characteristics, approximated in Figure 3 by straight-line segments of vertical M-profiles.

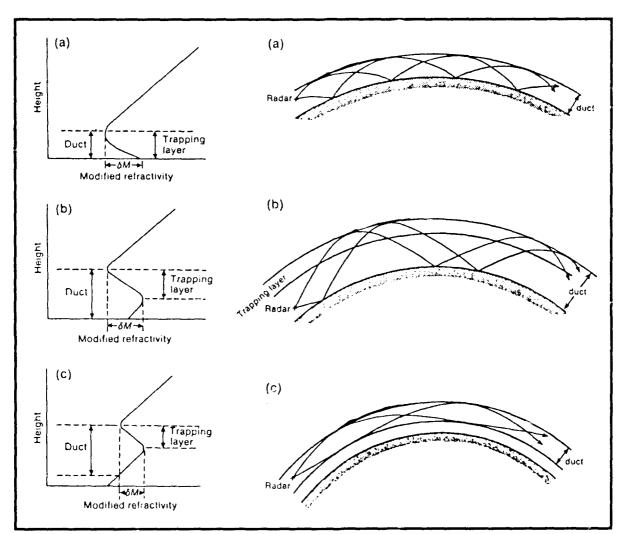


Figure 3. Typical Modified Refractivity (M) Profiles and Associated Propagation Paths for (a) Surface Duct, (b) Elevated Surface Duct, and (c) Elevated Duct (from Turton et al., 1988).

In (a), there is a surface duct in the height range from the ground to the inflection point, where dM/dh changes from a negative value (or zero) to a positive value. The top height averages less than 1,500 feet. The inset diagram to the right of sounding (a) shows how a beam behaves in a surface duct. Rays emanating from inside a duct below the critical elevation angle will be trapp d between the top and the surface.

A second inflection point at a lower height--shown in (b)--leads to an elevated surface duct if the *M*-value at the earth surface is lower than at the lower inflection point, but not as low as that at the upper inflection point. This marks the distinction between this and the elevated duct in (c). The propagation diagram to the right of sounding (b) shows how a beam behaves in this type of duct. Note that its propagation path is very different than that of sounding (c).

In (c), M is lower at the ground than at the upper inflection point. The term 'optimum coupling height' for the lower inflection point refers to the fact that a maximum number of rays from a given bundle, and hence a maximum of energy, is trapped there. It a transmitter is positioned higher or lower in the duct, a lesser range of elevation angles would lead to ducting.

The propagation diagram to the right of sounding (c) shows that even though there is a trapping layer, the rays don't reflect off the surface. During such events, surface clutter is almost climinated.

Not shown is an evaporation duct that occurs from the ground to the inflection point, with top height averaging only 13 meters (42 feet). The distinction between this phenomenon and a surface duct is that this one is produced solely from evaporation over water surfaces. The resulting sharp vertical gradient in moisture creates a very sharp vertical gradient in refrectivity.

Frequency. The minimum frequency of EM energy that may be ducted without consideration of the penetration angle of the ray is specified by the following equation (adapted from AWS/FM 100/014, 1980):

$$f_{min} = CG^{\gamma_i}d^{\frac{1}{\gamma_i}} \tag{8}$$

where

 $f_{m,r} = \min_{m \in \mathbb{N}} \text{minimum frequency (hertz) that may be trapped.}$

$$C = 1.1933 \times 10^{8} \text{ for } sata + \text{ducts} + \text{VWS-FM}$$

= 014, 1980)

 $C_{\rm c} \approx 7.8947~{\rm K}~10^4$ for elevated ducts (Turion et al., 1988)

$$G = \left(\frac{N_b - N_t}{d} - .157\right)$$

where, $N_{\rm r}$ = retractivity at the bottom of the layer

 N_i = refractivity at the top of the layer.

d = depth of layer in meters

Thickness Table 2 lists frequencies that may be trapped for various layer depth dN dh value combinations obtained from Equation 8. Note that the minimum frequency (maximum wavelength) that may be trapped decreases (wavelength increases) as the depth of the layer increases for a given dN/dh. Keep in mind, however, that these values do not represent strict cutoff conditions. Although radiation at the specified frequencies and higher is strongly guided, radiation at several times lower than these frequencies may also be affected by the duct. This happens because the thickness of a natural duct doesn't have a sharp limit (Bean and Dutton, 1966).

TABLE 2. Minimum Frequency (GHz) that may be trapped as a function of refractivity gradient and layer depth (from AWS/FM-100/014).

DEPTH (m)	-158	ממב	- <u>4(x)</u>	-8(x)	-1200	-2000
<u> </u>	<u>65G</u> Hz	<u>0.0G</u> Hz	1.2GHz	2.6GHz	2.0GHz	1.56GHz
3()	2.3	3.5	1.5	.,1	.7	53
15	12.5	1.0	.8.	.5	.4	.20
60	8.1	1.2	.5	, 3 °	.25	.19
90	4,4	.68	3	17	.137	.10
100	3.8	.58	.24	.15	,117	.OO
150	205	3.1	.13	.08	.06	,05
200	1.34	20	.09	.05	(0.1	.03
3000	73	.11	115	.(1) 3	.02	.017
400	.17	,O'7	.03	.0.2	0)1	.011
5()()	.38	.05	,0.4	.013	.010	,008

Elevation Angle. Although Equation 8 provides a means for determining the minimum frequency of the EM radiation that may be trapped for a given layer, this condition only applies to those rays emanating from the system at elevation angles less than or equal to the penetration angle for the given layer. The critical elevation angle (or penetration angle) for a given layer is a function of the vertical refractivity gradient, the vertical extent of the layer, and the location of the system with respect to the layer. Although frequency is not a variable in Equation 9, the conditions of Equation 8 must first be met. The critical angle for a given trapping layer is given by equations 9a and 9b; the former is from AWS/FM-100/014: the latter, from Hall, 1979.

$$\theta_C = \sqrt{2(N_s - N_h - 156.9(\Delta h))}$$
 (9a)

$$\theta_{\rm f'} = \sqrt{2(M_s - M_h) \cdot 10^6}$$
 (9b)

Where:

 $\Theta_C = \text{critical or penetration angle in milliradians}$

 N_s , M_s = refractivity at the surface

 N_h , M_h = refractivity at the top of the layer

 $\Delta h = \text{vertical thickness of the layer (surface to height } h)$ in kilometers

Figure 4 shows the refractivity gradients required for trapping of radar energy emanating from a surface-based radar for a layer depth of 100 meters (328 feet) as a function of layer height (H) and penetration angle (θc). Some of the gradient; shown in this figure are not "real world," but are included to show theoretical possibilities. The most extreme N gradients observed in nature are in the vicinity of -2,000 to -2,500 N-units per km (Lammers et al. 1980); in each case, these gradients were measured close to the earth's surface and over layer depths significantly less than 100 meters (328 feet).

The important point to be inferred from Figure 4 is that even under the most extreme conditions, the maximum penetration angle will not greatly exceed 1 degree—in reality, it rarely exceeds .5 degree. Frequency considerations were not applied here and would have to be considered for each actual case.

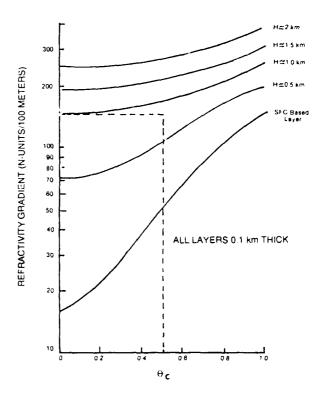


Figure 4. Critical Angle (Angle of Penetration) for Surface and Elevated Layers. The area enclosed by the dashed box includes the most frequently observed gradients (from AWS/FM-100/014).

Figure 4 indicates that energy is not trapped at elevation angles above .5 degree for most applications; remember, however, that the shape of the beam in almost aff systems ensures that some energy is propagated below .5 degree. Also, this theoretical development is based on the assumption of "horizontal stratification." The presence of tilted layers (which have been observed in the real world) could result in the ducting of energy propagated at elevation angles greater than 1 degree. Therefore, there is some potential for trapping in situations where ducting gradients are present regardless of the elevation angle of the system. Actual effects are system-dependent.

If the N gradient is less than -157 N-units per Km (that is, if the M gradient is negative) and uniform within the duct, rays starting at elevation angles below θ_{ℓ} will strike the ground, while those greater than θ_{ℓ} will escape the duct. This produces "holes" or "shadows" in the coverage of EM systems, along with excessive ground clutter. These effects are shown in Figures 5a and 5b (after Moreland, 1965). They can offer distinct offensive advantages or defensive disadvantages.

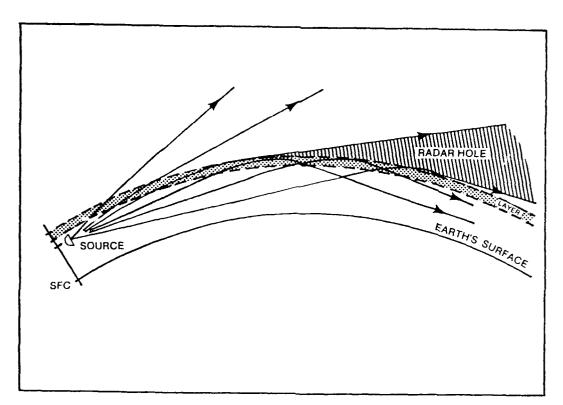


Figure 5a. Ray Refraction by an Elevated Layer, Radar Just Below Layer.

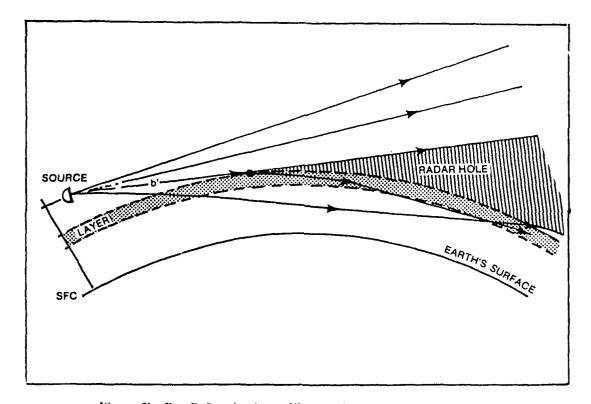


Figure 5b. Ray Refraction by an Elevated Layer, Radar Above Layer.

Chapter 2

THE METEOROLOGY OF ANOMALOUS PROPAGATION (AP)

Anomalous propagation (AP) is the term used to describe any type of nonstandard refraction phenomenon. AP is dependent on stratification of the atmosphere which is, in turn, dependent on certain weather conditions of these weather conditions can be predicted, it follows that stratification and the resulting AP can be predicted, as well. This chapter will discuss the meteorological conditions conducive to the formation of each of the three "anomalous" (i.e., nonstandard) refraction categories: subretraction, superrefraction, and ducting. Note that ducting is actually a form of superrefraction—the difference between the two is simply a matter of degree.

Subrefractive layers occur whenever the temperature gradient is less than (i.e., is more adiabatic) or the moisture gradient is stronger than in the standard atmosphere. The more notable patterns conducive to the formation of subrefractive layers are well-mixed layers, both surface-based and elevated, moist boundary layers

capped by inversions, stratus decks, and tog. Disert regions, with their low soil moisture, have a high percentage of occurrence of well-mixed layers. Alixed layers that have become elevated also produce subrefraction from the resulting inversion nose upward. Mixed layers can become elevated by nocturnal cooling by frontal lifting, or by advection of mixed layers downwind over cool, moist air Clids": Lanieci, 1985). When lids are present, the moisture in the boundary (ayer is trapped below the inversion base and consequently increases with height. As a result, the boundary layer is also subrefractive. The Trade Wind Inversion produces a subrefractive layer below the inversion nose for the same reason. This inversion results from a combination of subsidence south of the semipermanent oceanic highs. associated advection of well-mixed layers originating from large arid regions over the cool, moist boundary layers, and vertical mixing of warm, moist air from the ocean surface (Figure 6).

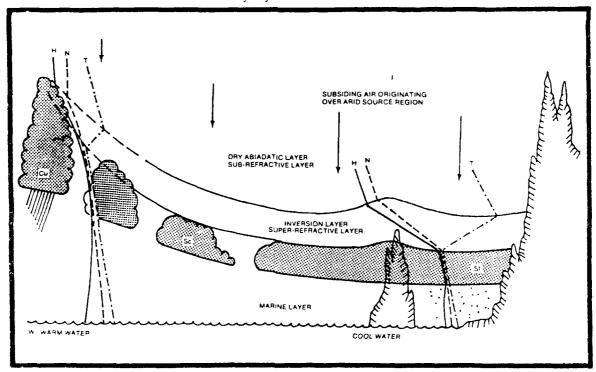


Figure 6. The Trade Wind Inversion Illustrated.

Subtetractive boundary layers are sometimes associated with subsidence inversions when the ground is wet from rain and summer insolation is strong--moisture

increases with height. Stratus also produces subrefractive layers--a more detailed discussion of that phenomenon will be provided later.

Contrary to what might be expected, log layers are usually completely subrefractive. This is because when tog forms, the total amount of water in the layer remains substantially unchanged, while some of the water vapor condenses. The contribution of a given quantity of water to refractivity is less when the water is in liquid form than as a vapor. If the temperature increases through the log layer (as is usually the case), saturation vapor pressure increases with height, and a subrefractive layer results. This occurs with ground log, and sometimes with advection log. Dew deposition enhances this effect.

Fog however, does not always produce subrefractive layers. In certain other, less frequent, types of fog, the temperature (and hence the saturation vapor pressure may remain constant or even decrease with height through the fog layer (as in windy tropical air fog or windy advection stratus). In cases like these, standard conditions (or a superrefractive layer if the temperature decrease is strong enough) are found. An example would be steam fog, which is formed when cold air passes over a warm sea. Advection fog would be likely to have a superrefractive layer above the surface standard layer.

Superregractive layers occur whenever the temperature gradient is stronger than (i.e., is less adiabatic) and the moisture gradient is weaker than in the standard atmosphere: ducting occurs whenever the lapse rate is much greater than standard. Inversions of temperature and or moisture, therefore, produce superrefraction or, if strong enough, ducting. The weather patterns that produce inversions, then, also produce superrefractive or dacting layers. A dimensional analysis of Equation 4 (on page 1) shows that vertical moisture gradients contribute much more to refractivity gradients than do vertical support to the gradients. Moisture inversions, therefore, ac more important considerations than temperature and some Moreland, 1965). The most notable ungersion producers are anticyclonic subsidence, trade wind circulations, differential advection and lawy is thunderstorm gust fronts, nocturnal surface cooling, and high-moisture layers produced by surface coaperation or clouds, Two notable inversions that usually do not produce superrefractive or ducting lavers are the frontal and land-breeze types (Turton et. al., 1988). The main reason for this is that the effects of certical temperature and moisture gradients counteract vach oth, r

Figures 2a and 7b catter Moreland, 1965) show a proposed working model for determining refractivity a sociated with cyclones (lows), their associated frontal zones, and sub-tropical and polar highs

(NAVOCEANCOMCEN 1987 and deduced from Moreland 1965). Note (in Figure 36) that within the cyclone and associated frontal zones (Region F), stratification is near standard. Instability and vertical mixing common in these regions lead to the assumption that refractivity conditions are also near standard.

There are very low elevated ducts near the center of the subtropical high (Region B) where subsidence is strong. The southeast quadrant (Region C) is also an area of low, strong elevated ducts. The southern quadrant (Region D) often has weaker elevated ducts than in Region C because as air flows northward, boundary layer temperature and moisture increase. This increases the strength of convection and in turn raises and weakens the elevated ducts. There is no significant AP in Region E unless mid-level flow originates over an arid region; an elevated mixed layer will be present and will produce an elevated duct or a superrefractive layer from the surface up to the nose of the resulting inversion, and a subrefractive layer above that. There is usually no significant AP north of the center at any time.

Within the polar high, AP characteristics are similar to those in the subtropical high, but there are two small differences. First, the center region (Region A) produces lower and stronger ducts than Region B because subsidence is stronger and the sinking air drier (i.e., the more the adiabatic warming, the stronger the inversion). Second, there is an area of low elevated ducts around the center, bounded to the south by weaker elevated ducts (Region C), and to the north by superrefractive layers (Region E).

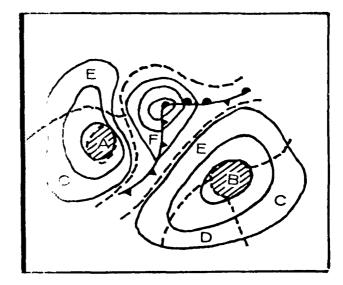


Figure 7a. Refractivity Regions (labeled A-F) in the Vicinity of Mid-Latitude System.

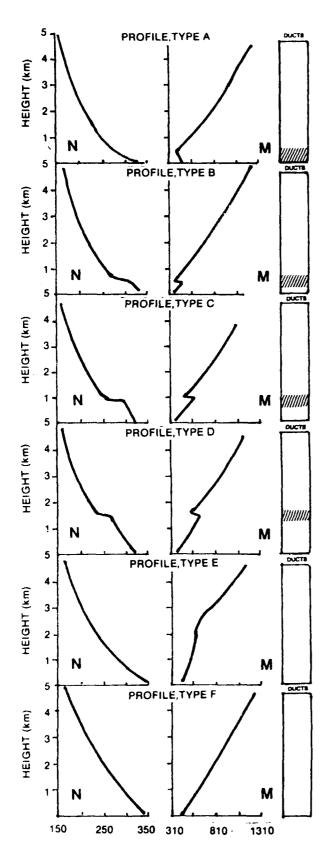


Figure 7b. Profiles Associated With Each Regional Type (A-F) in Figure 7a (Moreland, 1965).

The trade wind inversion also perdices ducting and superrefractive layers at its base one. Figure 6). When stratus forms beneath the inversion, furting strength increases because the ordinarily sharp decrease in moisture at the inversion is enhanced (there is more on the effects of stratus later in this discussion). The trade wind inversion is believed to be present at least 75% of the time in subtropical ocean areas downwind from major arid regions; its presence is reflected in the high ducting probabilities shown in Figure 8.

As mentioned earlier, elevated mixed layers (or Thick') also produce ducting and superrefractive layers. These warm and dry mixed layers trap cool, moist air at the surface, resulting in a sharp increase in temperature and a sharp decrease in moisture at the boundary reating a very sharp vertical gradient of refractivity. stratification results as a consequence of differential advection. At low levels, the flow originates over water surfaces; at mid levels, over arid very warm surfaces, such as deserts. This stratification, found over many parts of the world, is associated with desert/water-body combinations such as: Mexican Plateau/Gull of Mexico: Sahara/Northeastern Atlantic: Andes/Eastern Pacific: South Africa/Southeastern Atlantic: Southwest Asia/Red Sea, Persian Gulf, and Arabian Sea: China/Western Pacific: and Australia/Western Pacific. This partially explains why these regions have a high frequency of elevated mid-level ducts (refer again to Figure 8). As mentioned earlier, the mixed layer above the inversion is subrefractive.

Sea-breeze circulations produce ducting. superrefractive layers. As shown in figure 9, the circulation established by differential land-sea heating Pry layer above a cool and moist produces a warm a. layer; this inversion, however, only extends from 28 to 75 km from the coastline. As mentioned earlier, landbreeze circulations do not usually produce ducting or superrefractive layers because the resulting vertical temperature gradient (warm over cool) is counteracted by the resulting vertical moisture gradient (moist over dry). Because of the moderating effects of the tropical oceans, however, the vertical temperature gradients along tropical coastlines are often weak. Consequently, subrefractive layers can form. This is a prevalent occurrence in the Caribbean Basin. stratification of the sea/land breeze is produced on a much grander scale in monsoon regions—that is, land breeze/winter monsoon, sea breeze/summer monsoon

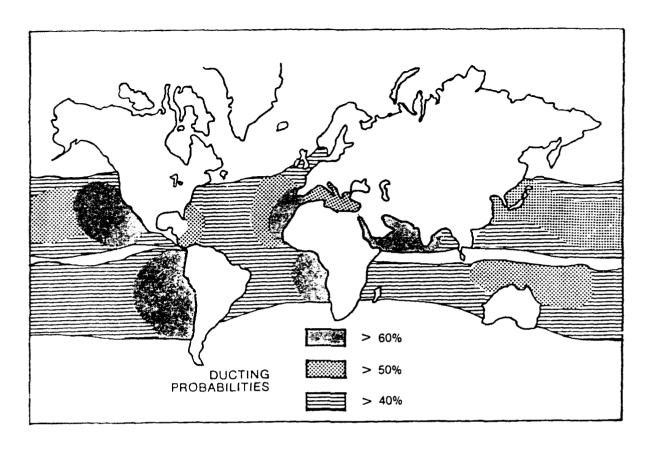


Figure 8. Global Frequency of Duct Occurrence (Miller et al. 1979).

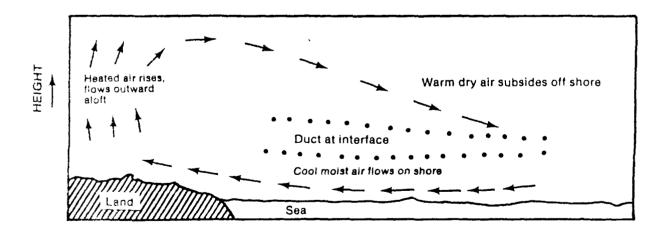


Figure 9. A Duct Created by a Sea-Breeze Circulation.

Cool and dry outflow ahead of thunderstorms produces weak, shallow superrefractive layers from gust fronts with warm, moist air over cool, dry air. Although the vertical temperature and moisture gradients oppose each other, the temperature gradient is usually strong enough to produce a weak superrefractive layer. The cool and rain-moistened outflow behind thunderstorms produces strong, shallow superrefractive layers that often become strong enough to duct because the temperature and moisture gradients act in tandem.

Nocturnal inversions produce shallow but sometimes very strong ducts. Nighttime cooling of the land surface under clear skies leads to the formation of a temperature inversion, while dew deposition leads to an opposing increase of humidity with height. Whether a duct forms will depend on whether the wind is strong enough to reduce dew deposition. When winds are light, ducts or superrefractive layers form just after sunset and disappear by early morning. Desert regions cycle from low-level ducts or superrefractive layers during the night to normal conditions by late morning, to deep subrefractive layers by early afternoon through late afternoon, finally returning to normal just after sunset when ducts and superrefractive layers start to form again.

Evaporation ducts form as a result of strong vertical moisture gradients created by large moisture fluxes from warm sea surfaces. Evaporation ducts may also form over land areas as a result of evaporation from wet surfaces after rain, over lakes when steam fog is observed, and even over tropical rain forests. These land-based ducts are generally shallow and short-lived. An interesting consequence of the physical processes that

form evaporation ducts is that strong duct formation is favored by low wind speeds in stable cases and by high wind speeds in unstable cases (Anderson & Gossard, 1953). Evaporation ducts are very common in tropical regions, especially in the Persian Gulf, where summertime sea surface temperatures are as high as 95°F (35°C); as a result, the Gulf has one of the largest moisture fluxes in the world, as well as the strongest and highest percent occurrence frequency of low-level ducts in the world.

Beneath their bases, stratus decks produce subrefractive layers because moisture increases with height there, while temperature remains relatively constant. But from mid-cloud upward, where temperature increases and moisture decreases sharply with height, ducts or superrefractive layers are produced--see Figure 6. An observation of the cloud top, therefore, such as from a pilot report or satellite photo, can be used to infer the altitude of a superrefractive layer.

Forecasting the existence of AP layers depends on being able to predict the vertical profiles of temperature and humidity in the region of interest. This can be approached by a combination of conceptual models as presented in this chapter, manually forecasting the sounding (Gresser and Wallace, 1985), and other modeling techniques such as IREPS (Patterson, 1988). Although this discussion has covered most of the weather patterns that produce anomalous propagation, AWS TR 183, Volume I, Estimating Meteorological Effects on Radar Propagation, (Moreland, 1965), provides much more detail and is highly recommended.

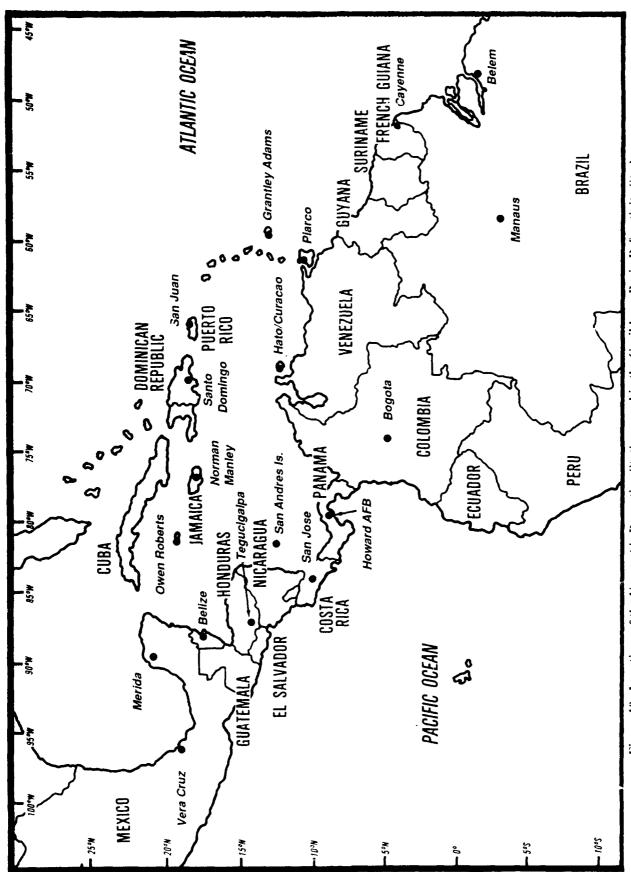


Figure 10. Locations of the Upper-Air Reporting Stations used in the Caribbean Basin Refractivity Study.

Chapter 3

HOW THE CLIMATOLOGY IS PRESENTED

Data Manipulation. The data used in this study was taken from USAFETAC's upper-air DATSAV database. period of record 1977-88. It was checked for gross errors and interpolated every 30 meters below 5,000 meters (16,500 feet--about 500 mb) and 50 meters up to 10,800 meters (35,000 feet). Interpolation is needed to produce a more uniform distribution of observations through the vertical; without it, the distribution is severely skewed toward the mandatory pressure levels. Larger increments resulted in many lost significant levels, and smaller ones didn't improve resolution enough to warrant the extra processing time. The cut-off was at 10,800 meters (35,000 feet) because (apart from the tropopause) profiles are flat above that level. Refractivity (N) and its vertical gradient (dN dh) were calculated and checked for gross coord. N 5 to cont 2 and 500 M units and dN/dh between -450 and 450 N-units/km. dN/dh was then categorized as specified in Table 1. Layers of the various categories were calculated and data was grouped by station, season, hour, and height in preparation for statistical analysis.

Weather Stations Used. Although 31 stations were analyzed for this study, data quality for many of them was poor, and not many had significant observation counts at 00Z. As a result, climatology for only 17 of the 31 stations is included in the study results: 13 of the stations had data for both 00 and 12Z, and four (used to fill in otherwise data-void areas) had data for 12Z only. The locations of the 17 weather stations listed in Table 3 and used in this study are shown in Figure 10, opposite. These stations were selected to provide the best areal coverage possible while keeping the technical note to a reasonable size; refractivity climatology for other stations may be available from USAFETAC/ECA upon request.

TABLE 3. Stations Used in Refractivity Study.

BLKSTN	NAME_	LAT	LON	ELEV (m)	LOCATION	KEY	AREA
766440	Merida, MX	20-57N	89-40E	11	Coastal	1	ı
766920	Vera Cruz, MX	19-09N	96-07E	13	Coastal	2	1
783840	Owen Roberts, GC	19-18N	81-22E	3	Island	3	2
783970	N. Manley, JM	17-56N	76-47E	1	Island	4	2
784860	S. Domingo, DR	18-28N	69-53E	14	Coastal	5	2
785260	San Juan, PU	18-26N	66-00E	3	Island	6	2
785830	Belize, BH	17-32N	88-18E	5	Coastal	7	ì
787200	Tegucigalpa, HO	14-02N	87-15E	999	Mountain	8	1
787620^{1}	San Jose, CS	09-59N	84-13E	920	Mountain	()	1
788060	Howard AFB, PM	08-58N	79-33W	66	Coastal	10	1
789540	G. Adams, BR	13-04N	59-30W	47	Island	11	2
789700	Piarco, TD	10-35N	61-21W	12	Island	12	2
789880	Hato/Curacao, NU	12-12N	68-58W	62	Coastal	13	2
800010^1	San Andres Is, CO	12-35N	81-42W	2	Island	14	2
802220	Bogota, CO	04-42N	74-09W	2.541	Mountain	15	4
821930 ¹	Befem, BZ	01-238	48-29 W	16	Coastal	16	9
823320°	Manaus, BZ	03-098	59-59W	84	Rain Forest	17	()
	1200Z data only						
	² "Area" column entr	dias rather to	cubrarie	en how n in Time	ara 11 and Table	1	

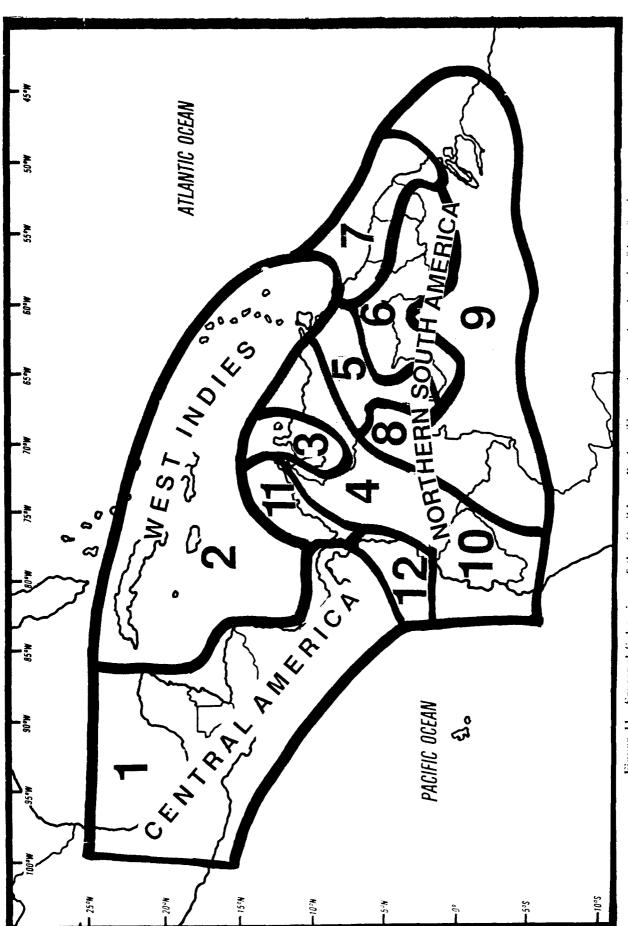


Figure 11. Seasonal Subregions of the Caribbean Basin. The numbers are keyed to the "Area" columns in Tables 3 and 4.

Seasons. The climate of the Caribbean Basin is not divided into the typical four seasons of the midlatititudes, but into tropical "wet" and "dry" seasons, with short periods of transition between. Because of the complicated movement of the Monsoon Trough (or Intertropical Convergence Zone, ITCZ) in this region. these periods vary widely from one subregion to another. and the seasonal breakouts (shown in Table 4) are extraordinarily complex. The unique seasonal groupings given in Table 4 apply to each of the 12 different subregions shown in Figure 11, opposite. Because there was no upper-air data for regions 4, 5, 6, 8, the western half of 9, and 10, (shaded), they were necessarily omitted from the study. It may be possible to infer some characteristics of these areas from stations in neighboring subregions, but use extreme care in such estimations.

The main obstacle to grouping the data by tropical "season" is that the transitions do not occur at the same time every year. As a consequence, the transition periods used in this study are longer than those that actually occur, and the transition statistics are therefore slightly diluted. Note that some subregions are shown as not having transitions at all; the decision to group them this way was made because the change in these areas was so abrupt, usually taking less than 2 weeks. In Appendix B, the seasonal periods shown below in Table 4 are keyed to numbers 1 to 5; that is, Wet Season = 1, Wet-Dry Transition = 2, Dry Season = 3, Dry-Wet Transition = 4, and and Monthly = 5.

TABLE 4. Seasons of the Caribbean Basin's 12 Subregions.

AREA	WET SEASON	WET-DRY TRANSITION	DRY SEASON	DRY-WET TRANSITION
1	Jun-Sep	Oct-Nov	Dec-Mar	Apr-May
2	Jun-Oct	Nov-Dec	Jan-Mar	Apr-May
3	May-Oct	Nov	Dec-Feb	Mar-Apr
4*	Mar-May & Oct-De	c	Jun-Sep & Jan-Feb	
5*	May-Sep	Oct	Nov-Mar	Apr
6*	Apr-Sep	Oct	Nov-Feb	Mar
7	Dec-Jul	Aug	Sep-Oct	Nov
8*	May-Oct	Nov	Dec-Mar	Apr
O	Jan-May	Jun	Jul-Öct	Nov-Dec
10*	Jan-Apr & Sep-Nov		May-Aug & Dec	
11	May-Jun & Aug-Nov		Dec-Apr & Jul	
12	Year-round			

Sounding Times Vs. Weather Extremes. The refractivity climatology given in this study is based on upper-air data that was necessarily restricted to the two fixed radiosonde sounding times: 0000Z and 1200Z. As mentioned in Chapter 1, there is no assurance that the times of local radiosonde runs will coincide with periods of minimum, average, or maximum refractive disturbances. As you may recall from Chapter 2, the refractivity profile near the ground is strongly dependent on diurnal changes in the state variables: extremes in anomalous propagation (AP) normally occur at the time of minimum and maximum surface temperatures (sunrise and late afternoon, respectively). To be most effective, then, any study of this kind would require soundings as

close to these times as possible. Upper-air soundings in the Caribbean Basin are taken at about 0700 and 1900 LST. Average sunrise in the region is 0630 LST in January and 0430 LST in July, usually about the time of the minimum daily temperature and consequently the time of day that nocturnal inversions are strongest (i.e., duct strength is at its peak). The 1200Z sounding is taken only a half-hour after morning extremes during the dry season, and 2 1/2 hours after morning extremes during the wet season. As a result, the 1200Z climatology does a good job of picking up extremes of AP during the dry season, but doesn't perform as well during the wet season. Average sunset in the Caribbean Basin is around 1730 LST in January and 1800 LST in July:

what little temperature maximum there is normally occurs at about 1300 LST, and the 0000Z sounding is taken well after afternoon extremes. Since diurnal oscillation is very small in most seasons and in most subregions, not as much AP activity is missed as one might expect.

Climatological Data Formats. This report provides refractivity climatology in three formats. The first is a narrative description of refractivity in a given region--see Chapter 4. Second, regional maps (Appendix A) show percent occurrence frequency of the three categories of AP. Finally, graphs and tables in Appendix B provide refractivity statistics, stratified by height, for each of the 17 stations used in the study. Explanations of the maps and tabular data follow.

Percent Occurrence Frequencies (POFs). In Appendix A, regional maps provide POFs for all three AP categories (ducting, superrefraction, and subrefraction). each of which is defined in Table 1. POFs show how often the vertical gradient of refractivity (N) exceeds certain values, but since this is only one of four conditions necessary to produce a given effect their "ducting," explained in Chapter D. POFs give only a "meteorological potential" for each of the three AP categories. To produce these maps, each sounding was scanned to determine whether or not a particular AP category had occurred anywhere in the layer from surface to 20,000 feet (6,090 meters). If a particular category was flagged as having had occurred, that sounding was counted as an occurrence for that category. Since any of the three AP categories could have occurred in the same sounding, POFs do not necessarily add up to 100%; sums could be as high as 300%. Data was grouped by the seasons shown in Table 4 before the POFs were calculated. A monthly breakout for each station is provided as a line graph in Appendix B.

Site-Specific Data. For detailed, "site-specific" needs, refractivity climatology is provided for each of the 17 stations listed in Table 3. This data is stratified by station, season, hour, and height. The latter (height) stratification was included in an attempt to provide vertical resolution that can be used in either a "look-up" or "look-down" configuration.

Height Increments. Interpolated heights are grouped every 500 feet from the surface to 5,000 feet (1,500 meters) MSL, and every 1,000 feet from 5,000 to 35,000 feet (10,800 meters). It is important to note that distance units are mixed, a convention that was adopted in order to conform to standard practices. Most references to

dN dh are in N-units per kilometer while most heights in meteorology and aviation are in feet.

Data Grouping and Presentation. Once grouped, the data was reduced statistically. *N. dN dh.* and layer thicknesses were tested to see if they were normally distributed. All three failed, meaning that means and standard deviations are not useful statistics: as a consequence, only percentiles are used in this report. The 1st, 10th, 50th (median), 90th, and 99th percentiles were chosen.

If a value is said to be at the "1st percentile," that value would be exceeded (or be more positive) 99% of the time. A value at the 99th percentile is exceeded only 1% of the time, and a value at the 50th percentile is exceeded half the time.

Profiles of N and dN dh percentiles are presented in graphic and tabular form, but percent occurrence frequency and layer thickness statistics of each refractivity category are given in tabular form only. The restriction resulted when a useful graphic representation schem, couldn't be found. The data in Appendix B is granged by station, season, hour, and height. Data for % station is kept together to make it easier for an operational foregaster to find it. To simplify referencing, each figure number is in three parts: the first part refers to the station, the second to the season, and the third to the different types of graphs and tables used example, Appendix Figure B-1-1-A refers to Merida. MX (station 1). Wet Season (season 1), and N percentile profiles (type A). See Table 3 for the station key, the discussion of Table 4 for the season key, and Table 5 for the type key.

TABLE 5. Data Type Key.

DATA TYPE	KEY
N percentile profiles	- -
dN dh percentile profiles	В
Refractivity category tables	C
Refractivity category layer thickness st	tatistics D

N Percentiles. Vertical percentile profiles of Refractivity (N) itself are provided in Appendix B as part "A" of each figure (lines from left to right: 1% 10%, 50%, 90%, and 99%). From these profiles, percentiles of N can be interpolated at any height from the surface to 80,000 feet. If more precision is needed, the table in part "C" of each figure gives N percentiles (N-units) for the

specific height groups. For example, median retractivity in the lowest layer (surface-500 feet) at 00Z during the wet season at Merida, MX (Figure B-1-1 4C) is 373.25 N-units, and the 99th percentile is 398.72 N-units. These profiles were not used in the analysis of the region's retractivity climatology, but are provided because they have some useful engineering applications. graphs, however, show that, on the average, refractivity does have an exponential lapse rate, lending strong support to the critical exponential lapse rate assumption used in many applications. Remember, however, that it is the vertical gradient of V that affects beam propagation, and that these averages wash out the day-to-day extremes that cause AP -A Climatology of dNdk. therefore, is more useful.

dN dh. Percentiles - Vertical percentile profiles of the vertical gradient of refractivity (dN,dh) are provided in Appendix B as part. B of each figure dines from left to right (1%, 10%, 50%, 90%, and 90%). As with N. percentiles of aN dh can be interpolated at any height from the surface to 30000 feet. If more precision is needed, the table in part [C] of each figure gives a Adh percentiles (Namits km) for the specific height groups In the Merida example, the median vertical gradient in the layer between 5,000 and 6,000 feet is 12.91 Numberkin, and the 99th percentile value is 180.92 Vainits km. The gradient is more negative estronger duct wise only 1% of the time. These profiles were used extensively in the analysis of the region's retractivity they also have many engineering applications in the design and operation of most alcetromagnetic propagation systems.

Refractivity Category Tables. Percentiles of V and dN B: along with percent frequency of occurrence (POF) of each category, are provided in tables as part. C of each figure. The percentile columns have already been described. The POF of each AP category is given for each of the specific height groups. The numbers show the percentage of time that the vertical refractivity gradient (dN B) within each height group talls within each of the AP categories. As with the AP frequency maps, the different categories are not mutually exclusive, and the percent frequencies for each height layer do not

necessarily add up to 100%. For example, Figure B-1-1-C shows that within the 1,000 to 1,500 foot layer at 00Z, dueting occurred 2,0% of the time; super-refraction, 6,2% of the time; and subrefraction, 2,6% of the time. Note that the POF of standard refraction was omitted because it was (not surprisingly) found to occur more than 99% of the time in every height group. Using these columns, a forecaster can determine the frequency of any of the three refractivity categories for any height listed in the table.

Laver Thickness Tables. As mentioned in Chapter 1, the thickness of a layer is one of the four variables needed to decide whether or not a particular stratification will influence a given system. Percentiles of layer thicknesses of each refractivity category are provided in tabular form as part "D" of each figure. These numbers show the percentiles of layer thicknesses in each category with bases within a given height group; for example Figure B.4.4D (0000Z) shows that when a duct is based anywhere between \$,000 and 6,000 feet, its thickness is greater than 295 feet half the time (the 50th percentile) and less than or equal to 689 feet 90% of the time (the 90th percentile). Adding the thickness percentile values to the bottom and top of a given height group will give analysts a rough idea (or range) of the tops of AP layers

Because these percentile columns are contingent on whether or not the layer has its base within a given height group, percent frequency columns showing the percentage of time a particular category is based within a given height group are provided. Again, as with the AP frequency columns in Table C, the percent frequencies are not mutually exclusive, and do not necessarily add upto 100%. The percent frequencies in this table are lower than those in Table D because they count only the occurrences based within height groups, whereas those in Table Dialso count the number of layers that pass upward through a given height group. Percent frequencies in the surface group are the same in both tables since no fayers pass upward through this group. Since analysis showed that very few if any, layers were based above 20,000 feet, the tables were terminated at that height

Chapter 4

DESCRIPTIVE REFRACTIVITY SUMMARIES

This chapter provides narrative summaries of retractivity climatology for the three major subregions of the Caribbean Basin. As has already been discussed in Chapter 2, patterns of anomalous propagation (AP) are highly dependent on weather conditions. This chapter relates Caribbean Basin weather to its AP patterns. The following discussions integrate the AP frequency distributions in Appendix A, the tabular statistics in Appendix B, and the general climatology in USAFETAC/IN-89/003, The Caribbean Basin-A Climatological Study. The author does not attempt to provide another general climatology for the study region; he tries only to relate the most prominent weather patterns described in USAFETAC/TN-89/003 with regional refractivity climatology. Specific refractivity climatologies are provided in the appendices and explained in Chapter 3. Because of the scarcity of data, the discussions are necessarily limited to the synoptic scale, hinting only slightly at the mesoscale. Forecasters

should therefore use the basics in Chapters 1 and 2 to apply this information to a specific location. The seasons described here are defined in Table 4 and Figure 11.

Note that Northern South America (that portion north of the Amazon River) has been further subdivided into 12 smaller regions because of the incredibly complex topography and wide range of climate. These subregions (the same as those used in USAFETAC/ TN-89/006, The Caribbean Basin--An Electrooptical Climatology for the 8-12 Micron Band, Volume III--Northern South America) are shown in Figure 12. Seasonal breakouts are given in Figure 11 and Table 4. Because of topography and climate, along with the fact that there are only five upper-air stations in the region (which is about the size of the United States east of the Mississippi), it is nearly impossible to relate AP climatology here to general weather. The discussions for Northern South America, therefore, are necessarily limited in scope and coverage.

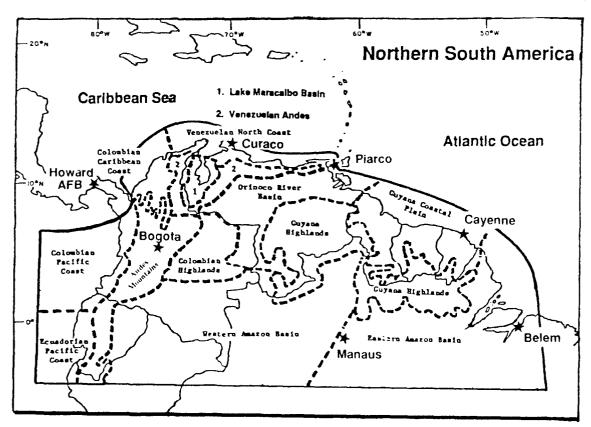


Figure 12. Northern South America Subregions (from USAFETAC/TN-89/006),

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CENTRAL AMERICA

WET SEASON

During northern hemisphere summer, the North Atlantic High is so far north and east as to have little effect on Central American weather. The trade wind inversion, already weak over the Yucatan Peninsula, weakens still further southward until 15° N, where it ceases to exist (Gutnick, 1958). The base of the inversion rises from 6,000 feet over the Yucatan Peninsula to 7,500 feet over Belize; this helps explain the higher incidence of ducting and superrefractive layers at those heights and locations (for an example, see Figures B-1-1-C, page B-5, and B-7-1-C, page B-107). Because the inversion is the main cause of ducting and superrefractive layers, the overall percent occurrence frequencies (POFs) of both ducting and superrefraction are lower during the wet season than at any other time of year. North of 15° N, ducts occur about 45% of the time and superrefractive layers occur more than 75% of the time. South of 15° N, ducts occur only about 10% of the time, superrefractive layers less than 25%, as can be seen on page A-2.

As another consequence of the distance from the North Atlantic High, trade winds are light (8 knots) and northeasterly: sea and land breeze circulations are free to dominate. Wherever coast lines are parallel to the trade wind flow (such as the east and west coasts of the Yucatan Peninsula and the east coast of Nicaragua), as well as on the lee side of the Rocky Mountains, the sea/land breeze circulation deflects the flow toward land during the day and out to sea during the night. Wherever the coast is perpendicular to the trade winds (as with Honduras and the Mexican gulf coast) the sea breeze is enhanced; the land breeze only slows the trade winds.

During the day, the sea breeze forces very moist air (RH 75-80%) beneath drier air (RH 50-60%) to produce a sharp vertical moisture gradient in the boundary layer (surface to 500 feet). As a result of the decrease in moisture with height, ducts and superrefractive layers are common along coastlines from the surface to 500 feet. This is reflected in the 00Z climatology: Merida, MX, shows 33.3% ducting POF and 37.9% superrefractive layer POF in the first 500 feet (Figure R-1-1-C, page B-5). Vera Cruz, MX, shows 25.7% and 38.0%, respectively (Figure B-2-1-C, page B-22). As the area south of Nicaragua comes under the influence of the

Monsoon Trough, the sea/land breeze circulation there is lost in the synoptic flow; ducting and superrefractive layers don't form as often. Howard AFB, for example, shows only 11.5% ducting POF and 18.8% superrefractive layer POF (Figure B-10-1-C, page B-158).

During the night, the land breeze forces the relatively drier air out over the water, beneath the moister air. Because of the moderating affects of the Caribbean, the potential temperatures of the two airmasses are about the same. The stratification of "moist over dry," with a relatively constant temperature, produces a subrefractive layer. North of 15° N, subrefraction occurs more often during the wet season than at any other time of the year. This is reflected in the 12Z climatology for Merida, MX, where the subrefraction POF is 41.1% (Figure B-1-1-C). South of 15° N, where the land breeze is either weak or nonexistent, subrefraction POF is not as high at Howard AFB, where subrefractive layers were observed only 28.5% of the time (Figure B-10-1-C).

AP is insignificant throughout most of the Northern Mountains region of Central America. Guatemala and Honduras, however, show a curious maximum in ducting and superrefraction between 6,000 and 9,000 leet, with a 12Z maximum in subrefraction above that (20% at 12Z, compared to 2% at 00Z; see Figure B 8-1-C, page B-124). We suspect that this is the result of a strong mountain breeze circulation that sets up during the night from the tremendously high (over 10,000 feet) mountain range in that area. Cool, dry air slides down the slopes and slips under warm, moist air. A strong temperature inversion forms; the inversion outweighs the effects of the small increase of moisture with height. If dew deposition occurs, the moisture gradient increases, usually counteracting the temperature inversion to the point at which ducting and superrefraction will not occur.

Without the trade wind inversion to impede convection, and with the movement of the Tropical Upper-Tropospheric Trough (TUTT) into the area to aid in ventilating convection, diurnal orographic circulations mesh with the sea breeze to produce thunderstorms almost every day on both sides of the Rocky Mountains. Confused AP patterns, produced by gust fronts interacting near the thunderstorms, predominate.

CENTRAL AMERICA

WET SEASON, Cont'd.

Tropical disturbances (easterly waves, tropical cyclones, subtropical lows, and trade wind surges) reach their peaks near the end of the wet season, but they are usually so well mixed that AP is at a minimum. Attenuation, on the other hand, is a serious problem. Subtropical lows are usually surrounded by a large zone of weak subsidence that often creates superrefractive layers. These lows are believed to be partly responsible for the "Temporale," a stratiform, drizzly weather system. Beneath the low cloud, in the drizzle,

propagation is near normal; above the stratus deck, however, the rapid decrease in moisture forms a superrefractive layer. The moisture gradient is rarely strong enough to produce ducting.

Fog is rare along coasts. The valleys of the Northern Mountains region are the only places in Central America where fog is prevalent. Whenever and wherever fog does form, however, a subrefractive layer is present.

WET-TO-DRY TRANSITION

The southward movement of the North Atlantic High begins the transition from a wet climate to a drier one. Trade winds begin to increase in strength and veer to the east-southeast. The trade wind inversion strengthens and lowers. The North American Polar Trough also begins to slide southward, shifting upper-level winds dramatically from easterly to westerly. All these changes result in a sharp decrease in convective activity and a dramatic increase in ducting and superrefraction. Boundary-layer AP decreases in occurrence frequency, but mid-level AP increases. During the transition there are chaotic swings between wet and dry season characteristics, with a prevailing tendency toward those of the wet season. To fully understand transitional AP patterns, forecasters must understand both wet and dry season characteristics.

DRY SEASON

As the North Atlantic High slides southward and establishes itself as the dominant weather feature in the Caribbean Basin, the trade winds and the trade wind inversion increase in strength and dominance. effect is more pronounced to the south of Belize than to the north, and stronger along the east coast than the west. As a result, ducting (70%) and superrefraction (80%) are at their maximums for the year--compare Figures A-1-1 and A-1-2). The frequency of occurrence of ducting and superrefraction at the height of the trade wind inversion (5,000 to 9,000 feet) swings from 6% during the wet season to 19% in the dry (Figures B-7-1-C, page B-107. and B-7-3-C, page B-115). Because of the well-mixed layer associated with the trade wind inversion, occurrence of subrefraction in the layer above the inversion parallels the occurrence of ducting and superrefraction.

During the dry season, the trade winds become strong enough (and the insolation weak enough) to mask the sea/land breeze circulation; the sea/land breeze AP pattern is at its minimum. As already mentioned, this effect is stronger south of Belize than north, and stronger on the east coast than on the west. Because the Rockies block the trade wind flow, sea/land breeze circulations on

the west coast remain active: boundary layer AP along the Pacific coast remains relatively constant throughout the year.

As another consequence of the trade wind inversion's presence, convective activity and precipitation are at their minimum for the year: the troublesome AP patterns produced by interacting gust fronts are seldom a problem. The Monsoon Trough has moved so far south, that it has no effect on Central American weather. Tropical disturbances still enter the area through November, but they are rare.

The main weather disturbance during the dry season is the occasional polar surge from the north, but these frontal systems rarely push farther south than Honduras. As the cold air behind the front is dammed against the eastern slopes of the Mexican Rockies, stratus (with its associated AP pattern) blankets the area. Except for fog that forms after frontal passage, the remaining parts of these fronts rarely produce AP. As the cold air behind the front moves over the warm (and usually wet) ground, fog forms. As discussed in Chapter 2, this type of advective fog usually forms a superrefractive layer.

CENTRAL AMERICA

DRY SEASON, Cont'd

Although the trade wind inversion reaches into the Northern Mountains Region, the trade winds are so jumbled as the flow passes over rough terrain that the mountain/valley breeze circulation continues to

dominate. Because the mountain breeze enhances the trade wind inversion, AP POF is higher in the morning than in the evening. The diurnal change, however, is not as great as during the wet season.

DRY-TO-WET TRANSITION

The dry-to-wet transition is marked by the northward retreat of the North Atlantic High, which withdraws from the Panama area in February, from Honduras in March, and from Belize in April. This northward progression is highlighted by a pronounced increase (by 50-55%) in convective cloudiness and a pronounced decrease in mid-level AP. The transition is marked by chaotic

swings between dry and wet season characteristics, but with a prevailing tendency toward the dry. In general, boundary AP occurrence frequency increases, while mid-level AP decreases. To understand transitional AP patterns, forecasters must familiarize themselves with both dry and wet season characteristics.

WET SEASON

During northern hemisphere summer, the North Atlantic High is not as dominant as during the dry season, but it still affects West Indian weather. The trade wind inversion, with an average height of about 9,000 feet (Gutnick, 1958), is responsible for a higher incidence of ducting and superrefraction between 6,000 and 9,000 feet, as well as for subrefraction above that. The percent occurrence frequency (POF) of AP throughout the troposphere is lower during the wet season than the dry, but because the trade wind inversion lingers in this area, AP POF remains higher over the West Indies than in Central America.

The western lobe of the North Atlantic High, which crosses the area in the middle of the wet season, bears watching. As the lobe swings from east to west, the trade wind inversion strengthens east of 70° N; the results include a "mini-dry season," a decrease in precipitation and an increase in the frequency of mid-level AP. The passage of the ridge produces an AP maximum about July (see Figure B-5-5, page B-87).

Orographic circulations dominate flow patterns on the leeward sides of islands, partly because insolation is so strong this time of year and partly because the trade winds are deflected by mountains. Trade winds couple with sea/land breezes to produce large boundaries between the moist air at low levels and the drier air aloft. For this reason, boundary-layer AP occurrence frequency and its diurnal change are greater on the leeward than on the windward side. Mid- and upperlevel AP is about the same on both sides of the mountain For example, compare San Juan, on the windward side of Puerto Rico (Figure B-6-1-C, page B-90), with Santo Domingo, on the leeward side of Hispaniola (Figure B-5-1-C, page B-73). An interesting effect of the orographic land/sea breeze couplet is a ring of clear air that often forms around smaller islands like Puerto Rico. The clear band signals the presence of superrefractive layers and the possibility of ducting.

As in Central America, the couplet of orographic and soa/land breeze circulations produces convective activity almost daily. Confused AP patterns are produced by interacting gust fronts near thunderstorms; these patterns are much too chaotic to predict.

A factor often missed in forecasting Caribbean weather is the Saharan Air Layer, or SAL (Carlson and Prospero, 1972; Diaz et al., 1972; and Karyampudi, 1987). The SAL is an elevated mixed layer that forms over the Sahara Desert and is advected intact all the way across the Atlantic. It is hypothesized that the SAL is a significant contributor to the character of the trade wind inversion. Using satellite imagery, Carlson and Prospero (1972) tracked the movement of a SAL's dust-laden air all the way from the Sahara and through the West Indies to Barbados. There is significant AP associated with the SAL, and tracking the phenomenon helps in forecasting increases in trade wind inversion strength. The percent occurrence frequencies of ducting at the level of the inversion base (5,000 to 9,000 feet), and of subrefraction above that, are very high.

Throughout most of the West Indies, there is a small peak in the occurrence of ducting and superrefraction between 2,000 and 4,000 feet (e.g., Figure B-6-1-C). A few stations show a diurnal cycle as well as a seasonal difference. Analysis of those soundings that showed ducting and/or superrefraction within that layer also showed that while moisture decreased sharply with height, the temperature lapse rate was almost adiabatic. The two lapse rates opposed each other, but the moisture change dominated. Ducting and/or a superrefractive layer were present, but a subrefractive layer did not follow as it does in many other situations. Winds were constant throughout the lower troposphere. We could not find an explanation for this stratification, and there was nothing in our data that suggested a physical mechanism. Be that as it may, the phenomenon does exist, and forecasters should be alert for it.

Tropical disturbances (easterly waves, tropical cyclones, subtropical lows, and trade wind surges) peak in September, near the end of the wet season. Even though these disturbances affect the West Indies more than other parts of the Caribbean Basin, they are usually so well mixed that AP is minimal. Attenuation, on the other hand, is a serious problem. Subtropical lows are usually surrounded by a large zone of weak subsidence that creates superrefractive layers. These cyclones are believed to be partly responsible for the "Temporale", a stratiform, drizzly weather system.

WEST INDIES

WET SEASON, Cont'd

Beneath the Temporales' low cloud, in the drizzle, propagation is near normal; above the stratus deck, however, the rapid decrease in moisture forms a superrefractive layer. The moisture gradient is rarely strong enough to produce ducting.

West Indian weather is moderated significantly by warm ocean waters. Sea surface temperatures average

84°F (29°C) during the wet season. As a result, evaporation ducts are prevalent in the lowest 200 feet (60 meters). These ducts, however, are not as strong as in other parts of the world, such as the Persian Gulf. As mentioned in Chapter 2, evaporation ducts are rarely detected by radiosonde, and are not shown as part of the climatology in the appendices.

WET-TO-DRY TRANSITION

The wet-to-dry transition begins—ith the southward movement of the North Atlantic High. Trade winds begin to strengthen and veer to the southeast, while the trade wind inversion strengthens and lowers to an average height of around 8,000 feet (Gutnick, 1958). The result is a sharp decrease in convective activity and a dramatic increase in ducting and superrefraction. Polar fronts start entering the region, but they rarely reach

farther south than Hispaniola. Boundary layer AP decreases in occurrence frequency, but mid-level AP increases. The transition is marked by chaotic swings between wet and dry season characteristics, with a tendency toward the wet season. To understand transitional AP patterns, forecasters must be familiar with the characteristics of both wet and dry seasons.

DRY SEASON

As the North Atlantic High slides southward, the trade winds and trade wind inversion intensify. As a result, ducting and superrefraction POFs are at their maximum for the year (70% and 85% respectively; compare Figures A-1-1 and A-1-2 with A-3-1 and A-3-2). The frequency of occurrence for ducting and superrefraction at the height of the trade wind inversion (which averages 7,500 feet) goes from a layer average of 9% during the wet season (Figure B-6-1-C) to 19% during the dry season (Figure B-6-3-C). Because of mixing, the frequency of subrefraction in the layer above the inversion parallels that of ducting and superrefraction.

Dry season trade winds (at 14 knots) are not much stronger than the wet season's 8 knots, and there is little seasonal change in boundary-layer mesoscale circulations. The POF of AP in the boundary-layer is almost the same throughout the year, but there is less insolation than during the wet season. The frequency of dry season AP is a bit lower. For example, superrefraction occurs 33.7% of the time during the wet season at 00Z over Norman Manley, Jamaica (Figure B-4-1-C) compared to 24.2% during the dry season (Figure B-4-3-C).

The Saharan Air Layer (SAL) described in the wet season discussion is thought to affect the dry season

trade wind inversion, as well, but there is no known documentation to support that conclusion. It is true, however, that weaker insolation over the Sahara during this time of year results in the fact that the deep mixed layers are not as strong; they are, however, still prevalent.

As another consequence of the trade wind inversion's presence, convective activity and precipitation are at their annual minimum; the troublesome AP pattern produced by interacting gust fronts is seldom a problem. The Monsoon Trough has moved so far south that it has no effect on the West Indies, even at Grantley Adams, Barbados. Tropical disturbances continue to affect the area through November, but they are rare.

The main dry season weather disturbance is the northern polar surge, which rarely pushes farther south than Hispaniola. Except for log that forms after frontal passage, these fronts rarely produce AP. They lift and destroy the trade wind inversion, thus eliminating ducting and superrefractive layers between 5,000 and 9,000 feet. As the cold air behind the front moves over the warmer (and usually wet) ground, fog forms. As discussed in Chapter 2, this type of advective fog usually forms a superrefractive layer.

WEST INDIES

DRY SEASON, Cont'd

As mentioned in the wet season discussion, there is a relative maximum in the vertical distribution of the POFs of ducting and superrefraction between 2,000 and 4,000 feet. For most stations, there is no significant seasonal change in this characteristic.

Winter sea surface temperatures cool to 77°F (25°C). Evaporation ducts are neither as strong nor as prevalent as during the wet season, but they continue to affect electromagnetic propagation in the boundary layer over open waters.

DRY-TO-WET TRANSITION

The dry-to-wet transition begins with the northeastward retreat of the North Atlantic High. Because of the northwest-southeast orientation of the island chain, the High leaves the West Indies, from Cuba to Barbados, at about the same time, usually by August. Its departure is highlighted by a 60-65% increase in convective cloudiness, a pronounced decrease in

mid-level AP, and an increase in boundary AP. This transition is also marked by chaotic swings between dry and wet season characteristics, with a tendency toward the dry season. To understand transitional AP patterns, forecasters must be familiar with the characteristics of both wet and dry seasons.

NORTHERN SOUTH AMERICA

As noted in the introduction to this chapter, the weather and terrain complexities of Northern South America made it necessary to divide the larger area into 12 climatologically similar subregions. Each of these 12 regions are shown in Figures 13-24 and discussed in an accompanying narrative. In several of these subregions for which upper-air data was unobtainable, a discussion of refractivity climatology was necessarily omitted.

THE COLOMBIAN CARIBBEAN PLAIN

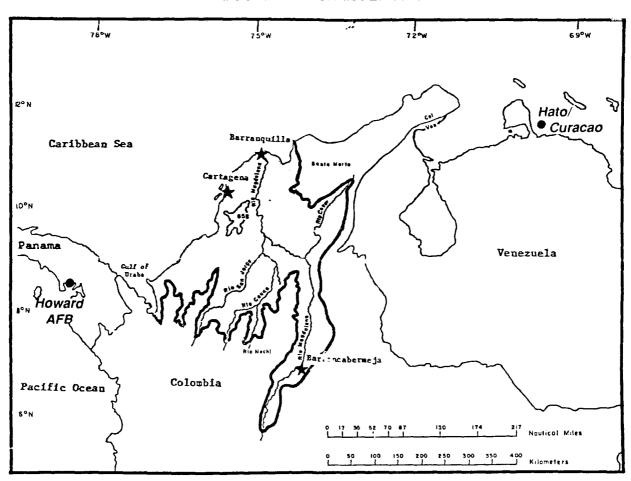


Figure 13. The Colombian Caribbean Plain. There is no upper-air data available from this region. However, climatologies from Howard AFB. Panama, to the west, and Curacao, to the east, along with general weather patterns over the area, are enough to support a discussion of AP.

WET SEASON

Because of Monscon Trough oscillations, this area has two wet seasons. The primary runs from August through November, with a secondary from May through June. Dry-to-wet season transitions are abrupt. The Monsoon Trough dominates the area during both wet seasons, resulting in a uniform stratification that leads to a low occurrence of AP.

COLOMBIAN CARIBBEAN PLAIN

WET SEASON, Cont'd

Winds are easterly to northeasterly at 10 to 15 knots. The coastal low-level jet goes through a typical diurnal cycle; peak winds reach 30 knots near 650 feet (200 meters) just before dawn, but return to gradient speeds by late morning. The jet induces upwelling in a long narrow band immediately offshore. The cool water stabilizes the lower atmosphere, producing a weak inversion and a superrefractive layer. The inversion is rarely strong

enough, however, to produce ducting. This AP pattern remains just offshore, advecting downwind into Panama.

Thunderstorms are common during wet seasons. About every 4th day they build up in the late afternoon over higher terrain and move out over the coastal plains during the evening; gust front AP patterns are prevalent.

DRY SEASON

The primary dry season is from December through March, with a secondary in July. The Monsoon Trough is south of the area during both dry seasons. The Northeast Trades and associated trade wind inversion enter the area during the primary dry season, leading to an increase in AP at about 4,000 feet. Since the trade wind inversion is absent in July, there is no AP increase during the secondary dry season.

One to three tenths stratus or stratocumulus forms late at night or early in the morning. Since ceilings are rare, stratus-induced AP is seldom a problem. With the strengthening of the northeast trades during the primary (December-March) dry season, the low-level jet becomes much stronger, intensifying upwalling along the coast. This, in turn, strengthens the surface inversion just offshore. As a result, superrefractive (even ducting) layers are prevalent.

Thunderstorms occur only over the Andean foothills and the Santa Marta Massif during the primary dry season; AP patterns from gust fronts are rare.

THE VENEZUELAN NORTH COAST

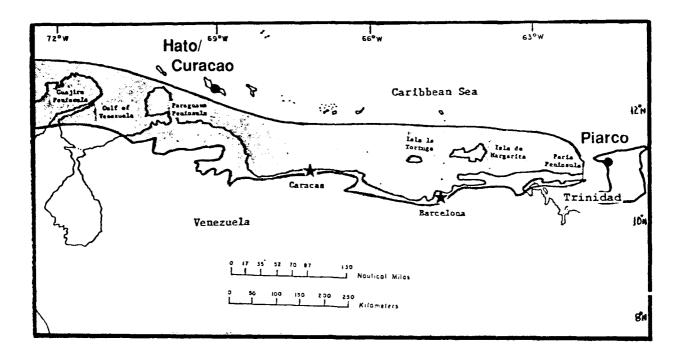


Figure 14. The Venezuelan North Coast.

WET SEASON

Because of the northward retreat of the North Atlantic High in northern hemisphere summer, the trade wind inversion is absent during the wet season and the AP POF between 5,000 and 10,000 feet is low. Trade winds are weak and variable. The Monsoon Trough rarely reaches far enough north to affect this area, and the mountain/sea breeze dominates the circulation pattern.

Curacao shows a remarkably high subrefraction POF in the lowest 500 feet, with 66.3% at 00Z and 66.7% at 12Z (see Figure B-13-1-C, page B-209). The same pattern is also seen over Piarco, Trinidad, but it is not as prevalent (27.4% at 12Z--see Figure B-12-1-C, page B-192). This stratification is the result of the complicated flow pattern in the area. The orientation of topography to the prevailing surface winds leads to a strong surface divergent pattern in the thermally driven mountain, coastal, and sea breeze circulations. Balancing convergence aloft, however, produces subsidence that suppresses precipitation (Lahey, 1980). As a result, this tropical region is remarkably arid, and the boundary layer is anomalously warm and dry compared to the layers above. This leads to a sharp

increase in dew point with height and a subrefractive layer, usually within the lowest 300 feet.

Subsidence aloft creates an inversion between 1.000 and 4,000 feet that caps the moisture flux from the sea and creates a narrow zone of sharply decreasing moisture with height. This structure is more evident at 00Z than at 12Z because of the effects of diurnal heating. By the afternoon, the temperature/moisture inversion is strong enough to produce at least superrefraction half the time (18.4% ducting + 31.9% superrefraction = 50.3%—see Figure B-13-1-C, 00Z, in the 2.000-2.500 foot layer). Note that, in the morning, it is at least superrefractive only 14.5% of the time (3.3% ducting + 11.2% superrefraction; see Figure B-13-1-C, 12Z in the 2.000-2,500 foot layer).

The fact that topographic divergence is stronger over the western half of the region than over the eastern half helps explain why AP is more prevalent over Curacao than over Piarco. Note, however, that Piarco's POF of subrefraction from about 9,000 to 19,000 feet (Figure B-12-1-C) stands out from the rest of the profile. This

VENEZUELAN NORTH COAST

WET SEASON, Cont'd

may be a result of the complex flow patterns discussed above since it shows up more during wet than dry seasons; the actual cause, however, is inconclusive because of lack of data.

Late in the season (by November), northern hemisphere polar incursions occur often enough to be a factor:

by the time they reach the Venezuelan coast, however, they have moderated to become only wind shift boundaries or shear lines. Discontinuities in the wind field disrupt the complex flow pattern described above and climinate AP, except in the vicinity of convective showers.

WET-TO-DRY TRANSITION

The transition from the wet to an *extremely* dry season doesn't take long. As soon as the North Atlantic High strengthens enough to reach the northern coast of South America, all the transitory systems (polar fronts, easterly waves, and tropical cyclones) are suddenly diverted by

the strengthening trade winds, usually in November or December. Until the inversion moves into the area, however, transitory systems keep the atmosphere so churned up that it's difficult to find order, much less forecast AP.

DRY SEASON

The only significant change from the wet season to the dry is caused by the presence and effect of the trade wind inversion. As mentioned earlier, the inversion enters the area during November or December. Once it does, order is restored as it effectively suppresses convection, eliminates the last precipitation of the wet season, and makes the dry season extremely dry. The persistence of the trade wind inversion allows the boundary to mix thoroughly, weakening (and sometimes eliminating) the increases in dew point with height that produce subrefractive layers. Subrefraction POF in the lower layers, therefore, is less than during the rest of the year.

The trade wind inversion is also responsible for an increase in ducting and superrefraction between 4,500 and 9,000 feet (11.9% ducting + 14.6% superrefraction = 26.5%--see Figure B-13-3-C, 00Z, in the 7,000-8,000 foot layer). In Appendix A, pages A-8 and A-9, you can see that ducting and superrefraction occur more than 70% of the time in the layer from the surface to 20,000 feet. This suggests that the trade wind inversion is present most of the time, but that it oscillates through the layers from 4,500 to 9,000 feet. Figure B-13-1-C shows that the inversion doesn't favor any one of those layers, and that POFs are uniformly distributed.

DRY-TO-WET TRANSITION

The dry-to-wet transition takes longer than the wet-to-dry. It usually lasts the entire 2 months of April and May as the trade wind inversion dies away gradually rather than moving away suddenly as in November and

December. Because of this, AP patterns oscillate between characteristics of the dry season and the wet season, and make AP forecasting even more difficult than at the end of the year.

THE LAKE MARACAIBO BASIN

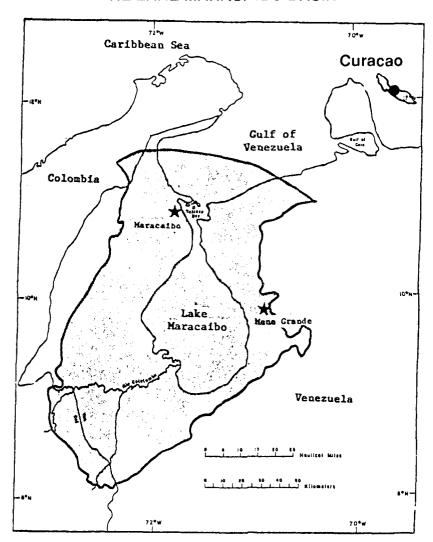


Figure 15. The Lake Maracaibo Basin. This region comprises Lake Maracaibo and the plains that surround it. Because of the surrounding mountain ranges, the basin has its own unique "mesoscale" climate. Although macroscale flow patterns affect the area, they are masked by the more dominant mesoscale and microscale effects most of the year. The closest upper-air station (Curacao), is outside this mesoclimate system, and not much help. Some AP patterns, however, can be inferred from the general climatology of the area.

WET SEASON

South of 10° N, the Monsoon Trough is the dominant factor during the wet season. The mountain/valley/lake breeze circulation is considerably weaker than during the dry season. AP is at its minimum for the year. North of 10° N, a weakened trade wind inversion with bases at

6,500-7,500 feet (1,980-2,300 meters) lingers; superrefraction remains a problem at that level throughout the year. With the Monsoon Trough farther south, mountain/valley/lake breezes dominate circulation and result in strong superrefractive POF diurnal oscillation.

LAKE MARACAIBO BASIN

WET SEASON, Cont'd

North of the lake (in the "semiarid zone") conditions are favorable for boundary layer subrefraction (local climatology suggests that low-level subrefraction occurs more than two-thirds of the time). South of the lake, with a larger amount of rainfall, subrefraction is not as much of a problem. Evaporation ducting is present over the lake but is not a dominant feature.

Southern hemisphere cold surges occasionally penetrate the Maracaibo Basin in September and early October, filling the basin with cool air and creating a superrefractive or ducting layer at the top of the cool dome that often extends throughout the basin. This condition persists until skies clear and daytime heating destroys the pool of cool air.

WET-TO-DRY TRANSITION

As the northeasterly trades strengthen, the Monsoon Trough is pushed southward and away from the basin. AP POF increases between 6,500 and 7,500 feet as the trade wind inversion returns and strengthens gradually.

Transition timing is totally dependent on the movement of the Monsoon Trough and how many times the trough line fluctuates before it is forced out of the area.

DRY SEASON

The dominant feature during the dry season is the mountain/vafley/lake breeze circulation, which produces large diurnal differences in AP. As discussed in Chapter 2, superrefraction (and occasional ducting) occurs where the circulation is sinking. Because this circulation is diurnal, the location of the AP changes. The mountain breeze during the night and early morning sets up an inversion along mountain ranges. The valley breeze during late morning and afternoon shifts the inversion to the valley.

Northeast flow off of the highlands of northern Venezuela advects an elevated mixed Layer over the basin. The boundary between cooler, wetter air at the surface and the warmer, much drier air from the highlands is usually at 2,000 to 3,500 feet. The AP POF is higher in the evening than in morning due to diurnal heating changes in the highlands and the oscillation of warm and cool advection.

DRY-TO-WET SEASON

South of 10° N, the trade wind inversion is replaced by the Monsoon Trough. AP POF decreases. The dry-to-wet transition usually takes longer than the

wet-to-dry as the Monsoon Trough is forced to move through and across the rough terrain.

THE VENEZUELAN ANDES

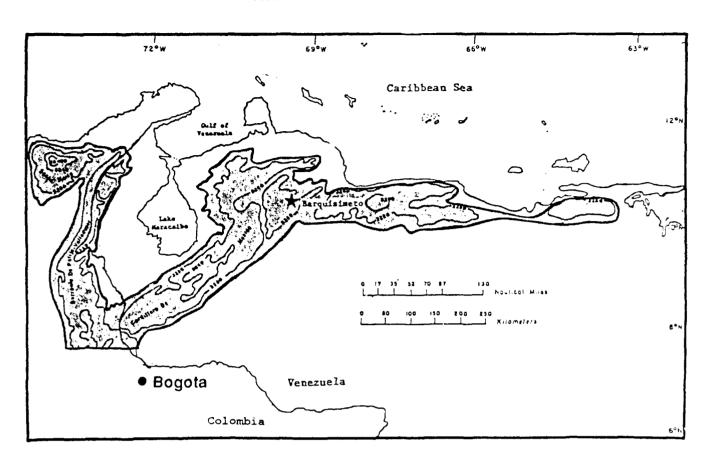


Figure 16. The Venezuelan Andes. There was not enough upper-air data in this area for an analysis that would support a discussion of refractivity climatology. The climatology that comes closest, however, might be that of Bogota, Colombia.

THE ORINOCO RIVER BASIN

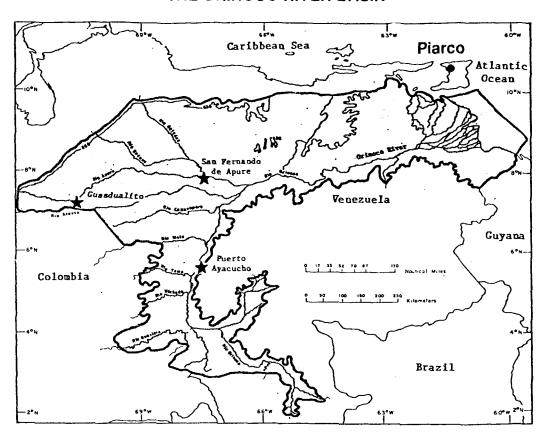


Figure 17 The Orinoco River Basin. Like the Venezuelan Andes, there was not enough upper-air data in this area to perform an analysis that would support a discussion of refractivity climatology. The climatology of coastal portions, however, might be similar to that of Piarco, Trinidad.

THE GUYANA COASTAL PLAIN

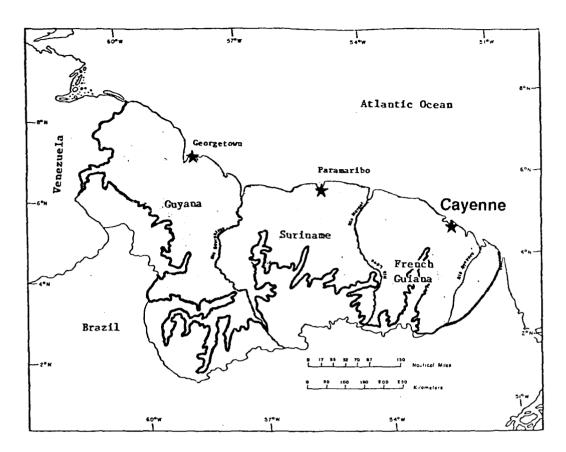


Figure 18. The Guyana Coastal Plain. This area, especially the interior, lacks the upper-air reporting stations necessary to produce a complete AP analysis. Although 12Z data from Cayenne, French Guiana, was used to prepare the following discussion, it was not included in the Appendix because much of it was suspect.

WET SEASON

From December to July, the Monsoon Trough lies south of this area. Easterly flow in the boundary layer advects cooler and wetter air from the Atlantic under warmer and drier air inland, creating coastal stratification that is conducive to superrefraction. The gradient is strong enough to produce superrefraction about a fifth of the time, but is rarely intense enough for ducting.

At times, when lobes of the North Atlantic High can't reach the area and trade winds at the surface are very light, sea breeze circulations dominate in a 200-mile zone along the coast. The trades at mid-levels actually help vent the upper branch of the circulation. Land/sea temperature differences are greatest in the morning, when the circulation is strongest. Subsidence ensues in

mid-levels just inland, producing a superrefractive layer at around 1,000 feet.

The northeast trade wind inversion extends as far south as the Guyana Coastal Plain only about 40% of the time from January to April, and less than 20% the rest of the time. When the inversion is present, heights are highly variable from one event to another, ranging from 5,500 to more than 12,000 feet. Superrefraction heights are correspondingly variable.

The Monsoon Trough lingers over the area from May through July, when AP is not very prevalent. The atmosphere remains well mixed until the trough moves south of the region. AP is at its minimum in June.

GUYANA COASTAL PLAIN

WET-TO-DRY TRANSITION

The Monsoon Trough passes to the north of the area sometime during August; the transition is marked by the oscillation between the Monsoon regime and the southeast trade winds. AP increases in frequency.

The southeast trades bring warmer and drier air into the area, setting up a low-level subrefractive layer that is not usually deep enough to cause major problems.

DRY SEASON

AP doesn't seem to be a problem during the dry season. The trade wind inversion associated with the South Atlantic High reaches French Guyana and into Suriname, but not as far north as Guyana. When the inversion is present, it's usually at about 5,000 feet in September, 9,500 feet by October. Ducting and

superrefraction occur accordingly. The strength of the inversion is about half that of the northeast trade wind inversion that affects the area during the wet season. The Southeast trade winds continue to advect warmer and drier air inland, forming subrefractive layers in the lowest 500 feet.

DRY-TO-WET TRANSITION

The Monsoon Trough begins its southward push during November. The southeast trades begin to lose their influence, and AP is at a relative minimum. Fog is prevalent now, especially in the interior and around

sunrise (10Z). With an increase in fog occurrence comes an increase in the subrefractive boundary layers. Fog (and the attendant subrefraction) dissipates by 12Z.

THE GUYANA AND COLOMBIAN HIGHLANDS

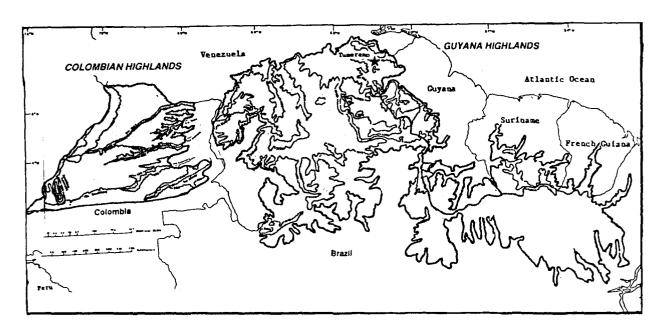


Figure 19. The Guyana and Colombian Highlands. There was not enough upper-air data in this area for an analysis that would support a discussion of refractivity climatology. By making inferences from what little data was available, however, it seems that AP is prevalent here.

THE ANDES MOUNTAINS

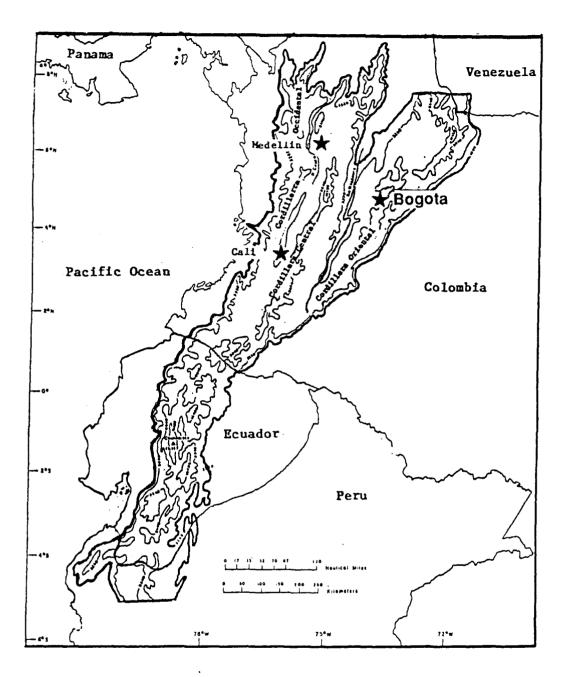


Figure 20. The Andes Mountains. Bogota. Colombia (elevation 8,345 feet/2541 meters) offers the only data available for this area. Figure B-15 shows that there is very little AP throughout the year. In fact, comparing Figure B-15-5 with similar figures for the other 17 stations shows that Bogota has the lowest AP occurrence frequency in the entire Caribbean Basin. A detailed discussion of refractivity here is therefore considered unnecessary. Operators should note, however, that complicated mesoscale circulations can create gradients that produce AP. The circulations are so erratic that Bogota's upper-air soundings probably miss the most significant features. Note also that stratifications resulting from local circulations are usually slanted. As discussed in Chapter 1, this allows for AP at unusual elevation angles.

THE COLOMBIAN PACIFIC COASTAL PLAIN

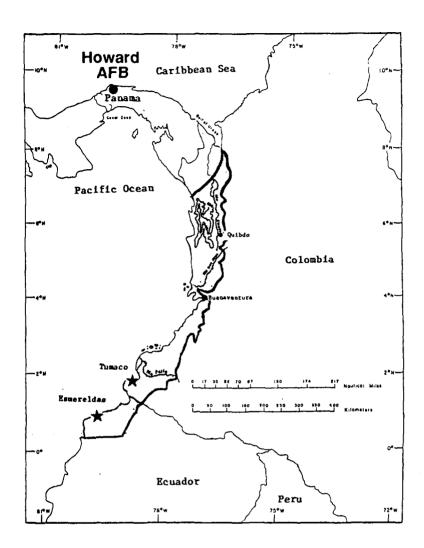


Figure 21. The Colombian Pacific Coastal Plain.

WET SEASON

There is no real "dry season" west of the Andes Mountains--the wet season persists here the year-round. There is no upper-air data for this region, but a few characteristics of the AP pattern can be inferred from general climatology and data from Howard AFB.

The dominant feature here, and the main cause of the year-long wet season, is the presence of the Monsoon Trough throughout most of the year. Upslope flow also enhances precipitation, making the area one of the

wettest in the world. Since constant mixing of precipitation results in uniform stratification, AP is rare. When the Trough is at its northernmost point (from September to October), equatorial westerlies flow against the Andes. A subsidence inversion, associated with southern hemisphere southeasterly trades, moves into the area and raises the POF of ducting and superrefraction between 3,000 and 5,000 feet. A minor letup in precipitation signals the presence of the inversion and a rise in AP POF.

COLOMBIAN PACIFIC COASTAL PLAIN

WET SEASCN, Contid

Even with extremely heavy rainfall, the weather here has a diurnal cycle. The rains end at dawn, when thick stratus/stratocumulus forms with bases between 500 and 1,000 feet (150 and 305 meters) and tops between 3,000 and 6,000 feet (915 and 1,830 meters). A vertical AP pattern of subrefraction in the lower layers dominates, with superrefraction and ducting just above the cloud deck.

By late morning, AP disappears as the cloud deck breaks up. By sunset, skies are overcast with stratocumulus and heavy cumulus; rain showers begin. Subrefraction appears in the lower layers after the rain stops in the morning, but superrefraction and ducting persist at the cloud-top level through the night. Thunderstorms are rare, along with the complicated AP patterns associated with gust front interaction.

THE ECUADORIAN PACIFIC COAST

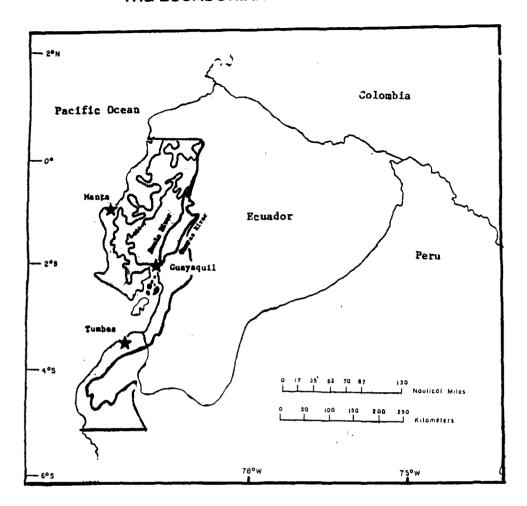


Figure 22. The Ecuadorian Pacific Coast. Although there was not enough upper-air data in this area for an analysis that would support a discussion of refractivity climatology, it should be similar to that of the Colombian Pacific Coast, with only small differences in seasonal timing. Note that Appendix A and Figure 8 suggest that ducting and superrefraction POFs are at their maximum off the western coast of South America. This is probably due to the combination of upwelling, the southeast trade wind inversion, and the advection of warmer, drier air from the Andean slopes.

THE EASTERN (LOWER) AMAZON BASIN

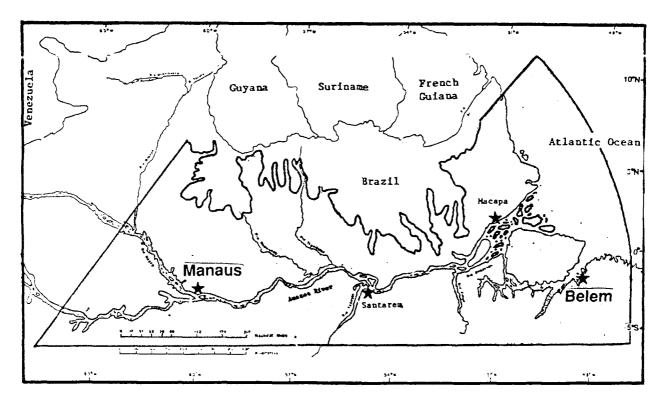


Figure 23. Eastern Amazon Basin. There are two good upper-air reporting stations in this area: Belem and Manaus, both in Brazil. Like most stations in this part of the world, however, they only report at 12Z. As a result, diurnal variations can only be interred.

Two peculiarities of this area are worth mentioning. First, the seasons are reversed from those in the Caribbean. This becomes evident when we compare Figure B-16-5 (Belem), where the maximum AP is between June and October, with Figure B-6-5 (San Juan, Puerto Rico), where the maximum is between January and April. Second, this is the heart of South America's tropical rain forest. Research has shown that typical rain forests release almost half as much water vapor back into the atmosphere as they receive in rainfall. This huge evapotranspiration of water vapor matches (and may

exceed) the vapor flux from the oceans. The effect is greater during the day than at night because of vegetation's response to sunlight. As discussed in Chapter 2, this leads to a strong vertical moisture gradient that creates strong ducting layers (evaporation ducts). It has been suggested that the pumping of vast amounts of moisture into the boundary layer leads to stronger and more frequent ducts above the Amazon Rain Forest than over the Persian Gulf, the recognized leader in evaporation ducting. So far, of course, there is no data to support this.

WET SEASON

Overall, there is very little AP during the wet season. With the Monsoon Trough over or just south of this area from January through May, thunderstorms are common and the dominant factor in AP production is interacting gust fronts. There are usually so many convective cells that the AP pattern is complicated—but normally not so

complicated that forecasters can't make *some* sense of it. The intensely humid boundary layer in the interior of the Amazon Basin extends to 2.000 feet MSL, with drier air above. The resulting moisture gradient is often strong enough to form superrefractive layers.

EASTERN AMAZON BASIN

WET SEASON, Cont'd

With the incredible amou... of moisture in the air, a little radiative cooling leads to dense fog banks. As noted in Chapter 2, radiative fogs are subrefactive. The fog layers are dense and thick enough to cause major problems by "short-ranging" EM systems.

Land/sea breezes have a major effect along coasts. Sharp changes in topography just inland complicate circulation patterns (for example, along the Venezuelan coast); boundary layer AP patterns should be similar to those around Howard AFB, but there isn't enough data to be certain. Along the Guyana Highlands, mountain/valley circulations dominate; convection is particularly heavy along the resulting convergence zones, enhancing boundaries enough to produce superrefractive layers, usually around 2,000 feet. These are rarely strong enough to produce ducting.

WET-TO-DRY TRANSITION

The June transition takes place quickly. As the Monsoon Trough moves northward, the southeast trades

and the associated inversion begin to affect the area.

DRY SEASON

Once the Southeast trades are established, convective rains diminish. The trade wind inversion averages between 2,000 and 4,000 feet as POFs of ducting and superrefractive layers increase dramatically--see Figure B-16-3-C. The Southeastern Atlantic High reaches only halfway into the Amazon interior. The low-level divergence noted in USAFETAC/TN-89/003 enhances the trade wind inversion, which is still only half as strong over Manaus as over Belem. As a result, ducting and superrefraction POFs are not as high in the 2,000 to 4,000 foot layer over Manaus as they are over Belem.

The moisture gradient at the top of the boundary layer noted in the wet season discussion is at its strongest during the dry season. This is due to a combination of two features: first, the surface is so saturated with water that the moisture flux remains strong even though

precipitation is not as frequent. Second, the southeast trade winds advect drier air over the area. Since the gradient is stronger, the POFs of ducting and superrefraction are higher at the top of the boundary layer (800-2,000 feet) during the dry season than during the wet season.

Fog occurs more often during the dry season because of cooler mornings; subrefraction is therefore more of a problem than in the wet season.

Polar surges from the south, which frequently reach the equator, become a factor. Convection is heavy along fronts. Extensive stratus decks occur in the cooler air behind the cold front: the standard stratus structure of subrefraction just below the stratus deck, topped by superrefraction or sometimes even ducting, is prevalent.

DRY-TO-WET TRANSITION

AP patterns from November through December oscillate from those of the dry season to those of the wet. Polar surge frequency decreases dramatically. The

Monsoon Trough returns, pushing the southeast trade wind inversion south.

THE WESTERN (UPPER) AMAZON BASIN

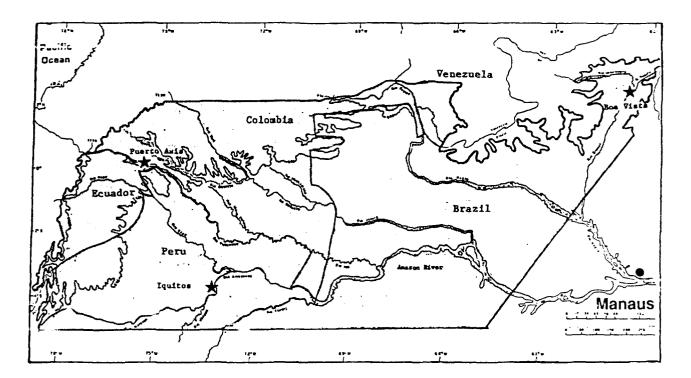


Figure 24. Western Amazon Basin. There is not enough upper-air data in this area for an analysis that would support a discussion of refractivity climatology. The topography, which rises toward the west, alc., with the absence of a dominant synoptic flow pattern, results in enough change from the climate at Manaus to cause uncertainty as to what really goes on in this region, weather-wise. One feature that may cause AP problems here, however, is the advection of an elevated mixed layer off the Guyana Highlands. The resulting stratification of hot and dry air over cooler and moister air is highly conducive to superrefraction and ducting. We suspect that the vertical boundary lies between 1,000 and 2,500 feet.

BIBLIOGRAPHY

- Anderson J. J., and E. E. Gossard, "The Effect of the Oceanic Duct on Microwave Propagation," *Trans Am Geophys Union*, Vol 34, No 5, pp. 695-700, October 1953.
- Bean, B. R., and E. J. Dutton, *Radio Meteorology*, National Bureau of Standards Monograph 92, U.S. Government Printing Office, 1966.
- Carlson, Toby A., and Joseph M. Prospero, "The Large-Scale Movement of Saharan Air Outbreaks over the Northern Equatorial Atlantic," *Journal of Applied Meteorology*, Vol II, March 1972.
- Diaz, Henry F., Toby N. Carlson, and Joseph M. Prospero, A Study of the Structure and Dynamics of the Saharan Air Layer Over the Northern Equatorial Atlantic During BOMEX, NOAA Technical Memorandum ERL WMPO-32, Boulder, CO, 1976.
- Gesser, F., and D. Wallace, *The Forecast Sounding*, AWS/FM-85/001, HQ Air Weather Service, Scott AFB, IL, 1985.
- Gutnick, Murray, "Climatology of the Trade Wind Inversion in the Caribbean," *Bulletin of the AMS*, Vol 39, No 8, August 1958.
- Hall, M. P. M., Effects of the Troposphere on Radio Communication, The Institution of Electrical Engineers, London and New York, 1979.
- Karyampudi, V.M., and Toby N. Carlson, "Analysis and Numerical Simulations of the Saharan Air Layer and Its Effects on Easterly Wave Disturbances," *Journal of the Atmospheric Sciences*, pp. 3102-3136, 1988.
- Lahey, James F., On the Origin of the Dry Climate in Northern South America and the Southern Caribbean. Scientific Report No 10, pp 75-90, University of Wisconsin, Madison. 1958.
- Lammers, Ure H.W., John T. Doherty, and Richard A. Marr, *Anomalous Tropospheric Refraction Near the Arabian Peninsula*, RADC-TR-80-216, Rome Air Development Center, Griffiss AFB, NY, 1980.
- Lanicci, J. M., A Conceptual Model of the Severe Storm Environment for Inclusion into Air Weather Service Severe Storm Analysis and Forecasting Procedures, AFGL-TR-84-0311, Air Force Geophysics Laboratory, Hanscom AFB, MA, 1985.
- Miller, G. K., W. B. Moreland, and L.N. Ortenburger, *Radiosende Data Analysis III*. World Contour Maps Contract MDA-904-78-C-0511, Sylvania Systems Group Western Division, GTE, Mountain View, CA, 1979.
- Moreland, W. B., Estimating Meteorological Effects on Radar Propagation, AWS Technical Report 183, Vol I, Air Weather Service, Scott AFB, IL, 1965.
- Morrissey, J. F., Y. Izumi, and O. R. Cote, *Intercomparisons of Radiosondes and an Airborne Refractometer for Measuring Radio Ducts*, AFGL-TR-86-0143, Air Force Geophysics Laboratory, Hanscom, AFB, MA, 1986.
- Operational Analyses and Forecasts of Horizontal Surface Refractivity, U.S. Naval Oceanography Command Center/Joint Typhoon Warning Center, COMNAVMARIANAS, Box 12, FPO SF 96630-2926, 1987.
- Ortenburger, L. N., S. B. Lawson, and B. J. Patterson. *Radiosonde Data Analysis IV*, Monthly Statistics Report Contract MDA-904-84-C-6002, Sylvania Systems Group Western Divison, GTE, Mountain View, CA, 1985.

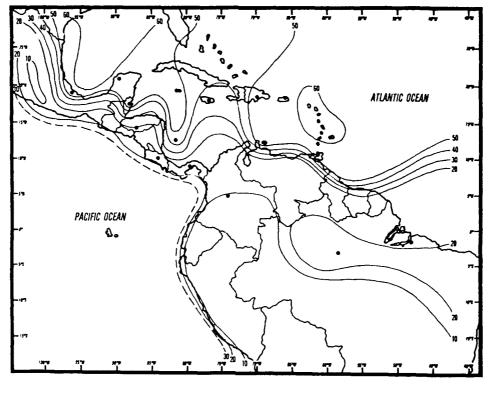
- Patterson, W.L., Effective Use of the Electromagnetic Products of TESS and IREPS, NOSC Technical Document 1369, U.S. Naval Ocean Systems Center, San Diego, CA, 1988.
- Propagation Climatology, AWS/FM-100/014, Air Weather Service, Scott AFB, IL, May 1980.
- Rowlandson, L.G., and J.S. Schwarz, Radio Refractivity and Meteorological Data Plots from Radiosonde Launches Trade Winds--March 1969. Aerospace Instrumentation Program Office, ESD, L.G. Hanscom Field, MA 1970.
- Samson, C.A., *Refractivity Gradients in the Northern Hemisphere*, OT Report 75-59, U.S. Dept of Commerce, Office of Telecommunications, 1975.
- Schelleng, J. C., C. R. Burrows, and E. B. Ferrell, "Ultra-Short-Wave Propagation," *Proc. IRE*, Vol. 21, No. 3, pp. 427-463, March 1933.
- Turton, J. D., D. A. Bennetts, and S. F. G. Farmer, "An Introduction to Radio Ducting," *Meteorological Magazine*, Vol 117, pp. 245-254, 1988.

APPENDIX A

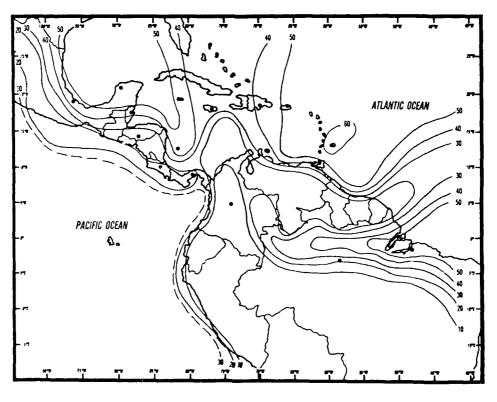
The maps in Appendix A show percent occurrence frequency (POF) of AP in the Caribbean Basin. The maps are grouped by season and by AP category (ducting, superreraction, and subrefraction). See Chapter 3 for a detailed explanation of the maps and their content.

Season	AP Category	Page
Wet Season	Ducting	A-2
Wet Season	Superrefraction	A-3
Wet Season	Subrefraction	Α-4
Wet-to-Dry Transition	Ducting	A-5
Wet-to-Dry Transition	Superrefraction	A-6
Wet-to-Dry Transition	Suprefraction	A-7
Dry Season	Ducting	A-8
Dry Season	Superrefraction	A^{-9}
Dry Season	Subrefraction	A-10
Dry-to-Wet Transition	Ducting	A-11
Dry-to-Wet Transition	Superrefraction	A-12
Dry-to-Wet Transition	Subrefraction	A-13

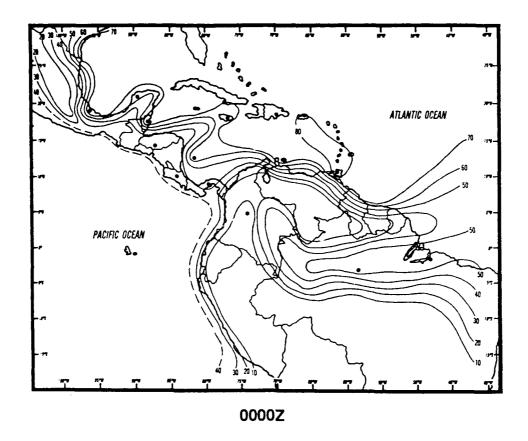
WET SEASON DUCTING

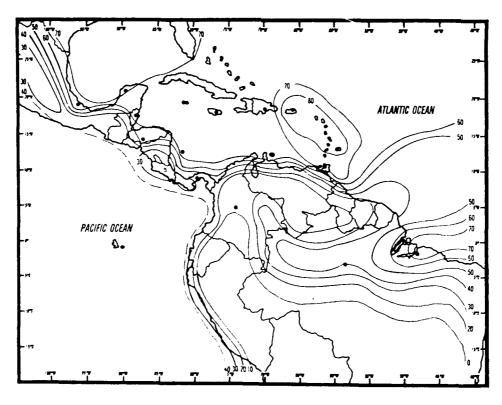


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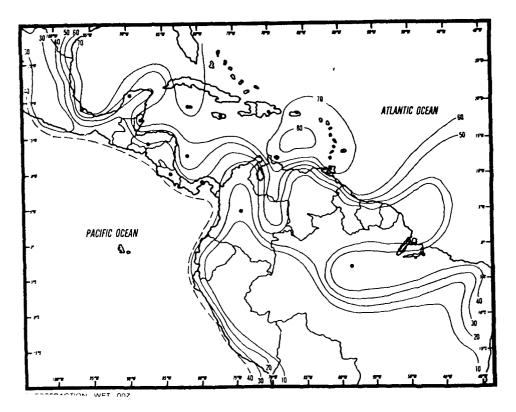
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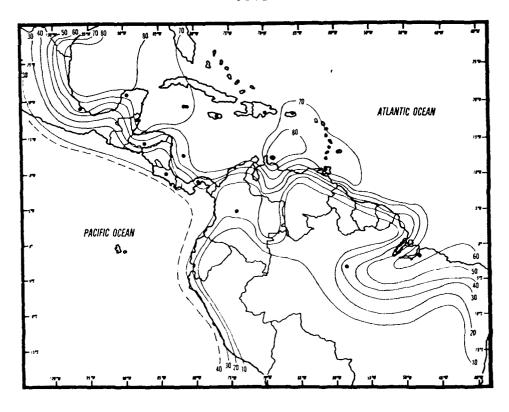


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WET SEASON SUBREFRACTION

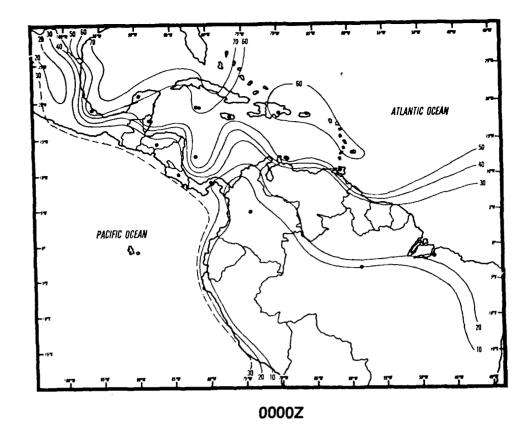


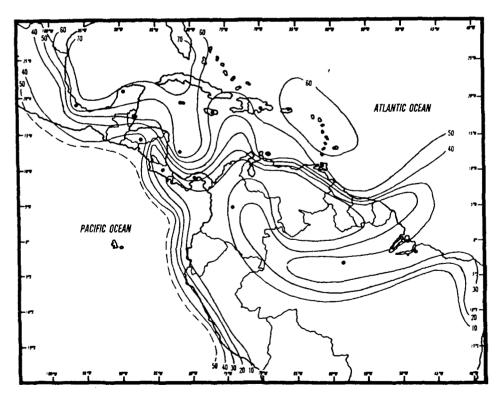
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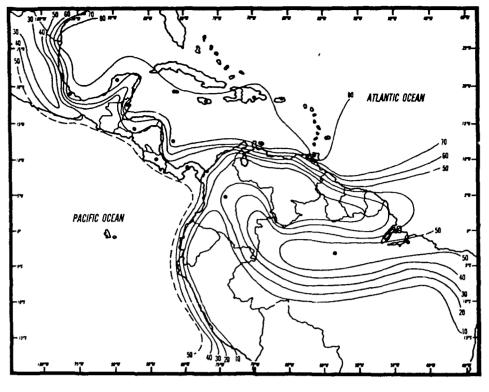
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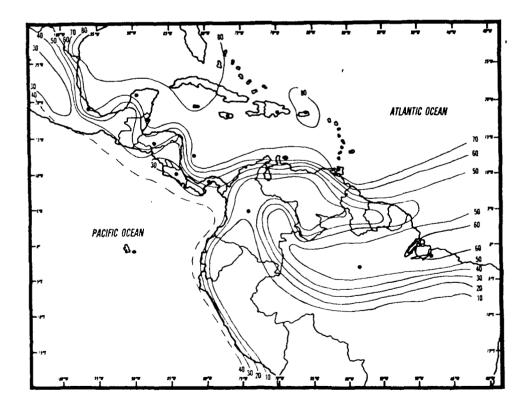




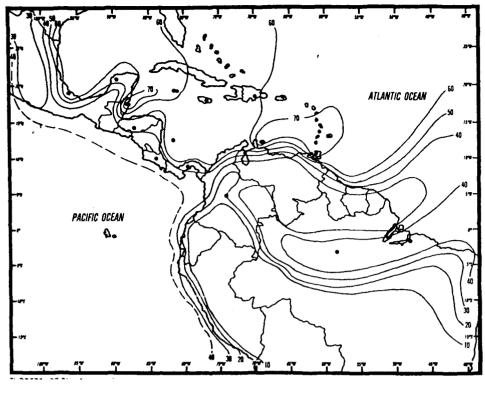
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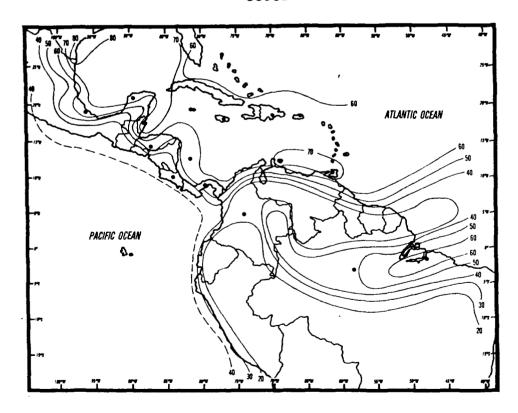
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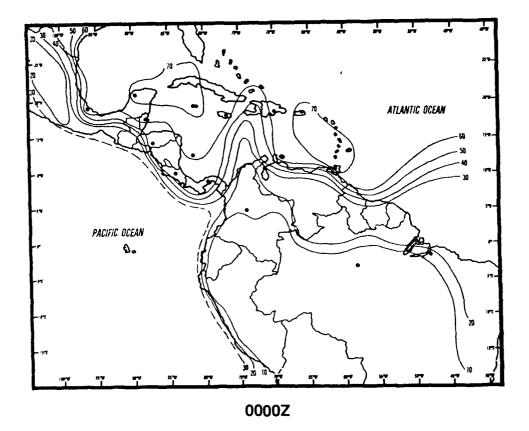
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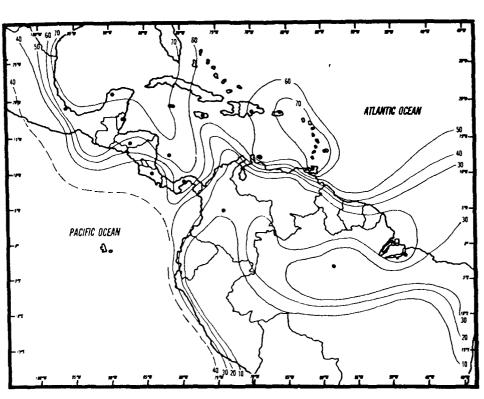




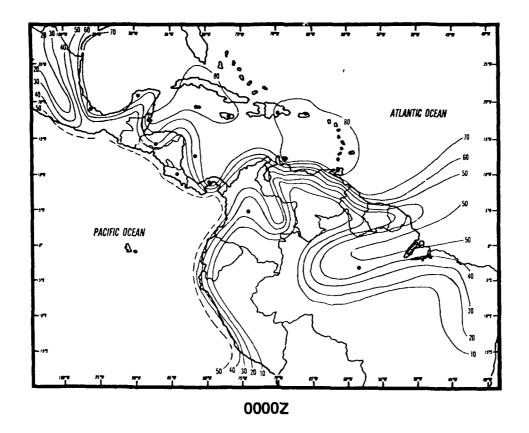


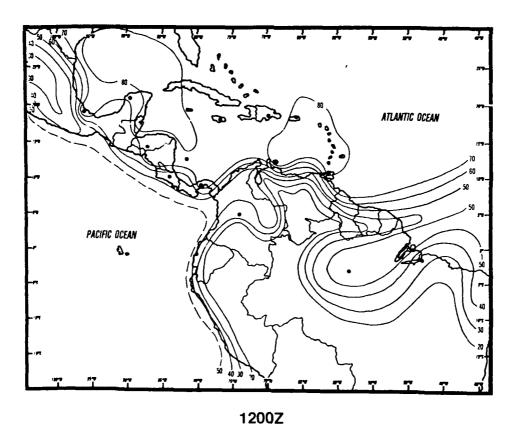
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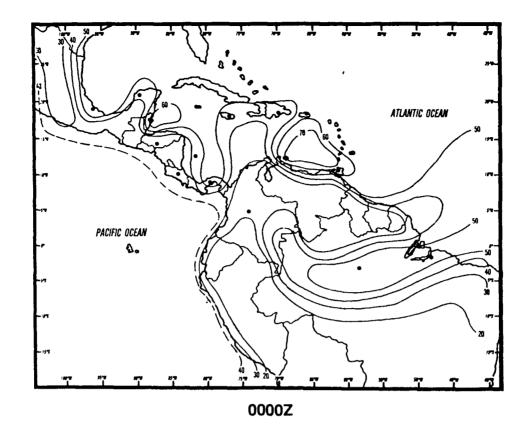
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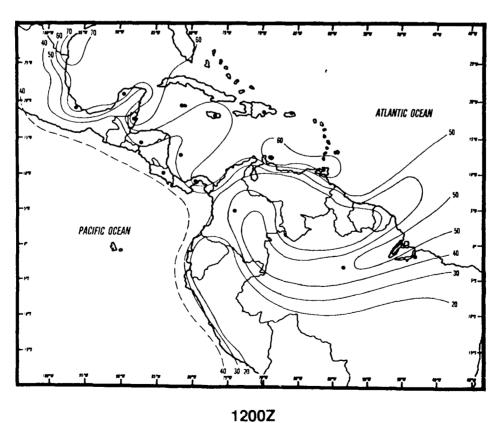




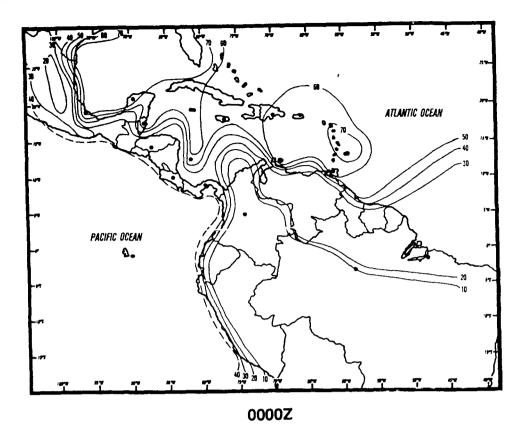
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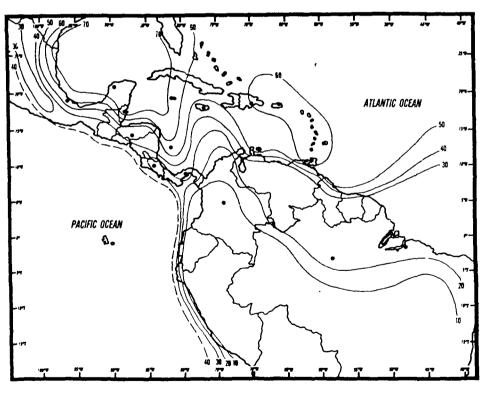
DRY SEASON SUBREFRACTION



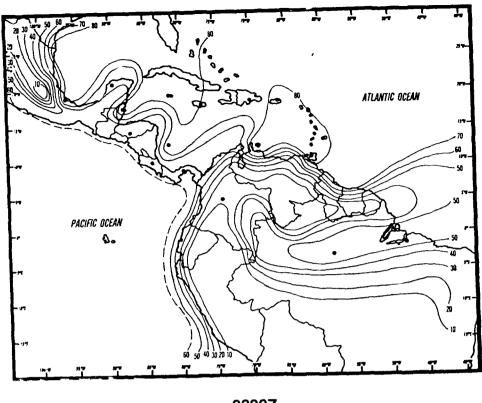


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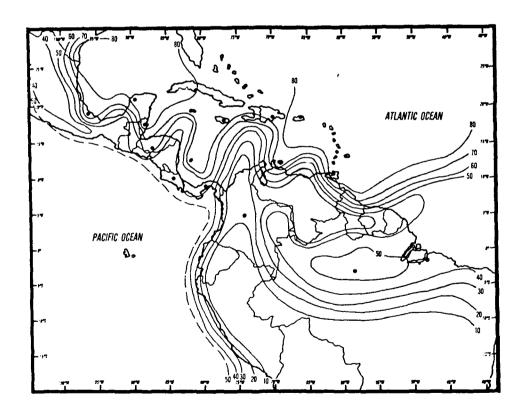




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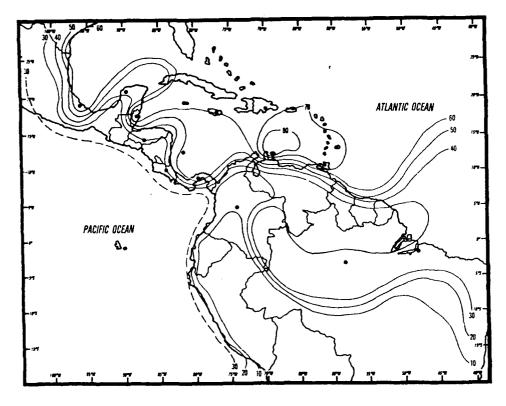


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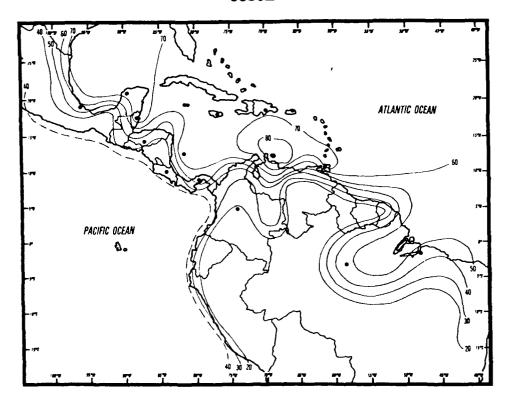


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A-13

APPENDIX B

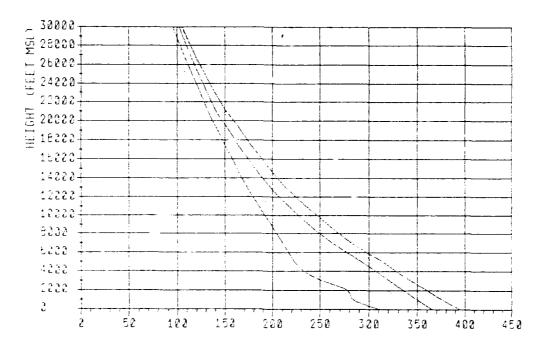
The graphics in Appendix B are grouped by station, by season, and by data type. See Chapter 3 for detailed descriptions of the individual figures and their contents.

Station	Season	Figure	Pages
Merida, MX	Wet Season	B-1-1	3-6
, .	Wet-Dry Transition	B-1-2	7-10
	Dry Season	B-1-3	11-14
	Dry-Wet Transition	B-1-4	15-18
	Monthly AP POFs	B-1-5	19
Veracruz, MX	Wet Season	B-2-1	20-23
	Wet-Dry Transition	B-2-2	24-27
	Dry Season	B-2-3	28-31
	Dry-Wei Transition	B-2-4	32-35
	Monthly AP POFs	B-2-5	36
Owen Roberts, GC	Wet Season	B-3-1	37-40
	Wet-Dry Transition	B-3-2	41-44
	Dry Season	B-3-3	45-48
	Dry-Wet Transition	B-3-4	49-52
	Monthly AP POFs	B-3-5	53
Norman Manley, JM	Wet Season	B-4-1	54-57
	Wet-Dry Transition	B-4-2	58-61
	Dry Season	B-4-3	62-65
	Dry-Wet Transition	B-4-4	66-69
	Monthly AP POFs	B-4-5	70
Santo Domingo, DR	Wet Season	B-5-1	71-74
	Wet-Dry Transition	B-5-2	75-78
	Dry Season	B-5-3	79-82
	Dry-Wet Transition	B-5-4	83-86
	Monthly AP POFs	B-5-5	87
San Juan, PU	Wet Season	B-6-1	88-91
	Wet-Dry Transition	B-6-2	92-95
	Dry Season	B-6-3	96-99
	Dry-Wet Transition	B-6-4	100-103
	Monthly AP POFs	B-6-5	104
Belize, BH	Wet Season	B-7-1	105-108
	Wet-Dry Transition	B-7-2	109-112
	Dry Season	B-7-3	113-116
	Dry-Wet Transition	B-7-4	117-120
	Monthly AP POFs	B-7-5	121
Tegucigalpa, HO	Wet Season	B-8-1	122-125
•	Wet-Dry Transition	B-8-2	126-129
	Dry Season	B-8-3	130-133
	Dry-Wet Transition	B-8-4	134-137
	Monthly AP POFs	B-8-5	138

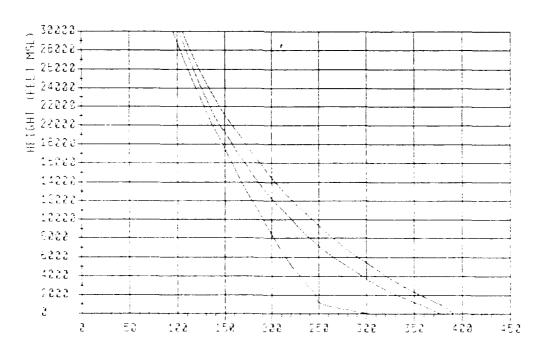
San Jose, CS	Wet Scason	B-9-1	139-142
·	Wet-Dry Transition	B-9-2	143-146
	Dry Season	B-9-3	147-150
	Dry-Wet Transition	B-9-4	151-154
		B-9-5	155
	Monthly AP POFs	D-9)	1,1,1
Howard, PM	Wet Season	B-10-1	156-159
	Wet-Dry Transition	B-10-2	160-163
	Dry Season	B-10-3	164-167
	Dry-Wet Transition	B-10-4	168-171
		B-10-5	172
	Monthly AP POFs	D-10-5	1 / _
Grantley Adams, BR	Wet Season	B-11-1	173-176
•	Wet-Dry Transition	B-11-2	177-180
	Dry Season	B-11-3	181-184
	Dry-Wet Transition	B-11-4	185-188
	•	B-11-5	189
	Monthly AP POFs	D-11-0	102
Piarco, TD	Wet Season	B-12-1	190-193
,	Wet-Dry Transition	B-12-2	194-197
	Dry Season	B-12-3	198-201
	Dry-Wet Transition	B-12-4	202-205
	Monthly AP POFs	B-12-5	206
	Monuny At 1 Ot 5	D-12-3	200
Hato/Curaco, NU	Wet Season	B-13-1	207-210
	Wet-Dry Transition	B-13-2	211-214
	Dry Season	B-13-3	215-218
	Dry-Wet Transition	B-13-4	219-222
	Monthly AP POFs	B-13-5	223
	Mondiny 7d 1 Or 3	5 13/ 5/	22.7
San Andres Is., CO	Wet Season	B-14-1	223-227
	Wet-Dry Transition	B-14-2	228-231
	Dry Season	B-14-3	232-235
	Dry-Wet Transition	B-14-4	236-239
	Monthly AP POFs	B-14-5	240
	Monuny At 1 Of 5	D-14 ./	2.40
Bogota, CO	Wet Season	B-15-1	241-244
	Dry Season	B-15-3	245-248
	Monthly AP POFs	B-15-5	249
			200
Belem, BZ	Wet Season	B-16-1	250-253
	Wet-Dry Transition	B-16-2	254-257
	Dry Season	B-16-3	258-261
	Dry-Wet Transition	B-16-4	262-265
	Monthly AP POFs	. B-16-5	266
M 07	Wat Cannon	B-17-1	267 170
Manaus, BZ	Wet Season		267-270
	Wet-Dry Transition	B-17-2	271-274
	Dry Season	B-17-3	275-278
	Dry-Wet Transition	B-17-4	279-282
	Monthly AP POFs	B-17-5	283

MERIDA WET SEASON

N PERCENTILES



N (N-Units) 0000Z

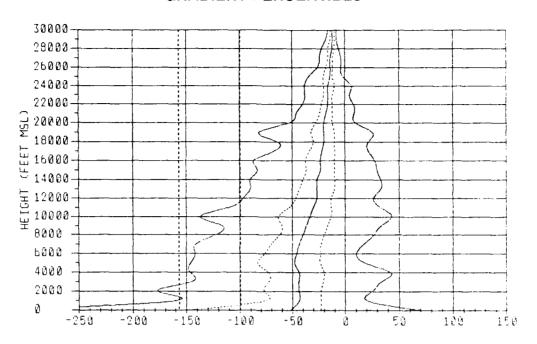


N (N-Units) 1200Z

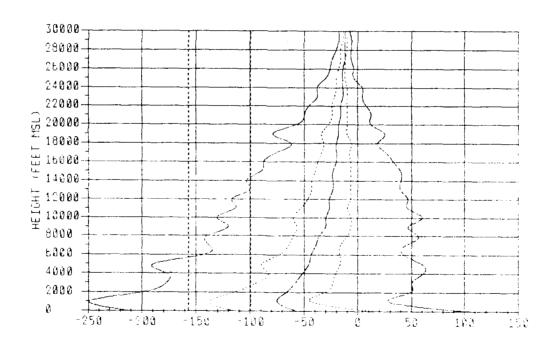
FIGURE B-1-1-A

MERIDA WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-1-1-B

MERIDA	A										W	ET S	EASO	N
FTESL	1 1%	N PERC	ENTILES SOR	80%	99%	1 1%	DWD 10%	PERCEN	TILES DON	50×	11	PERCEN	T OCCURS	
SFC-500 500-1000	:324.68 :304.56	384.86 344.75	373.28	397.38	388.72	-410.37 -183.33	-200.00 -83.33	-72.91 -45.63	-20.63 30.83	180.82 33.44	!!	33.3	39.7 I	
1000-1800	1281.63	337.78	384.28	388.19		1-162.50	-79.16	-43.76	-20.83	20.83	11	2.0 i	0.2	
1000-2000	1287.58	330.87	347.25	360.75	371.00	1-166.66	-77.08	-43.75	-22.91	28.00	t i	2.8 1	7.0	
2000-2800	1286.87	323.50	340.00	353.10		1-188.50	-78.16	-43.78	-22.01 -22.01	28.00	11	3.1	4.8 !	
2500-3000 3000-3500	1272.17	315.00 307.21	332.06 324.19	344.50		1-150.00	-78.16 -77.08	-43.78 -43.78	-20.83	30.17 25.12	11	3.2	8.3 (4.1 3.0
3800-4000	1245.71	301.00	317.25	329.00		1-131.25	-70.63	-48.78	-20.83	41.00	ii	1.5	3.7	
4000-4800	1234.00	294.37	310.50	321.86		1-133,33	-72.01	-43.78	-20.78	48.83	ii	1.3	4.0	4.0
4800-8000	1229.39	287.50	303.69	314.88	322.07	1-168.33	-77.08	-43.78	-20.63	39.08	11	2.5 i	0.1 !	4.0
5000-6000	1222.30	273.68	291.08	303.88		1-147.81	-61.25	-47.81	-28.00	10.66	11	2.9	9.7	8.7
€000-7000	1218.80	258.88	278.06	287.75		1-139.64	-78.00	-48.83	-23.30	10.42	1.1	2.8 1	7.6 [
7000-8000 8000-9000	1210.00	240.48	262.00	274.19		1-136.72	-70.08 -80.02	-43.36 -39.58	-22.51 -19.92	16.66 28.69	11	1.6	7.2	7.8
	1196.93	216.10	236.20	248.30		1-116.68	-56.77	-30.59	-16.66	33.33	ii	1.4	4.4	7.2
						*					- • • -	+		
10000-11000		208.60	225.30	237.00		1-130.07	-00.02	-33.33	-13.28	36.71	1.1	3.3 1	0.6	
1000-12000		198.70	214.60	228.00		1-110.02	-80.00	-29.95 -26.69	-13.20 -13.20	33.33 28.88	11	1.4	2.6	
12000-13000		188.10	204.80	215.90		-93.23	-46.61 -40.10	-20.00	-10.03	33.33	11	1.4	2.8	9.7
4000-15000		171.60	187.20	198.30		-00.16	-30.87	-28.44	-10.03	33.33	; ;	1.3	2.2 1	8.4
5000-16000	1161.20	168.50	179.60	190.30	194.70	-86.71	-38.71	-23.50	-10.03	30.07	-++-·	1.1 1	2.4	9.9
	:150.00	159.90	172.60	182.90	187.10	-80.68	-36.89	-22.85	-11.95	21.85	ii	0.9 i	1.7	
7000-18000	1150.90	184.10	165.10	174.70	178.60	-65.85	-32.03	-21.95	-10.00	20.43	1.1	0.7 1	0.7 1	7.8
8000-19000	1148.30	148.30	158.40	167.30		1 -78.01	-30.00	-20.00	-10.00	24.08	11	2.4 1	1.4 1	
9000-20000	:140.40	142.90	161.30	169.70	165.11	1 -58.20	-30.00	-20.00	-12.03	16.01	11	0.3 1	0.7	6.5
0000-21000	:138.70	138.20	145.10	183.10	158.20	-03.98	-28.01	-18.04	-12.03	7.97	11	0.1	0.4 (6.0
1000-22000	1111.20	133.60	139.60	148.70	149.60	1 -43.88	-23.98	-17.96	-11.95	8.05	1 1	0.1 1	0.1 ;	8.4
3000-33000		128.30	134.60	140.70	143.50	-36.01	-21.96	-16.01	-11.88	8.02	1.1	0.2	0.3 !	
1000-24000		124.60	129.50	134.90	137.60	-38.01	-20.00	-18.01	-11.96	2.48	11	0.1 !	0.0 !	4.4
4000-28000	:116.80	120.20	124.50	129.10	131.40	-40.00	-20.00	-14.00	-11.95	3.98	 -++	0.3	0.4:	
8000-28000		110.30	119.80	123.90	126.00	-27.98	-18.04	-13.98	-11.95	-2.03	1.1	0.1 !	0.1 !	1.6
	1108.70	112.40	118.80	119.10		1 -26.01	-18.01	-13.98	-11.00	-1.00	1 1	0.0	0.1 !	1.3
27000-28000	:104.30	108.30	111.10	114.30		1 -22.03	-18.01 -14.06	-13.98 -12.03	-11.95	-5.94 -8.02	11	0.0 1	0.0 1	1.8
1000-30000		101.20	107.30	108.50		1 -17.96	-13.98	-12.08	-10.00	-7.97	11	0.0	0.0 1	0.6
						+					- • • -			
10000-31000	1 93.16	88.00	88.80	101.70		1 -16.01	-12.03	-11.95	-10.00	-7.87	1.1	0.0 1	0.0	0.2
1000-32000	1 89.70	84.60	96.30	98.20		-30.00	-12.03	-11.95	-10.00	-6.03	11	0.0	0.0 1	0.
12000-33000 13000-34000	98.30	91.10 87.90	92.60 89.30	94.50	95.50 91.60	: -13.98 : -28.01	-12.03 -12.03	-10.00 -10.00	-10.00 -10.00	-7.97 -7.97	11	0.0 1	0.0 1	0.2
14000-35000		85.60	88.70	87.70	88.40	-27.98	-11.95	-10.00	-7.07	-7.97	11	0.0	0.0	

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HGT FT MSL	1%	N PERCENT	TILES BOX BOX	99X	1%	DMD:	H PERCENT	PON	99%	11	PERCENT DUCT	OCCURR SRLR 1	ENCH
SFC-500 500-1000 1000-1500	1349.61 1291.56 1258.41	361.86 3 347.06 3	81.19 308.19 73.86 382.06 62.75 372.75	393.19 1- 367.75 !- 378.76 !-	214.58	-120.63 -137.50	-41.66 -64.58 -78.00	41.66 -12.50 -41.66	131.54 62.60 16.66	11	0.0 7.0 10.4	21.6 22.7 26.2	41.1 (14.3 (2.2 (
1800-2000 2000-2500 2800-3000 3000-3500	1251.89 1248.25 1243.24 1238.90	318.69 3	50.38 361.88 38.56 351.25 26.69 340.69 18.06 330.19	369.07 !- 358.58 !- 349.18 !- 338.75 !-	206.70		-72.91 -70.83 -84.58 -80.41	-43.78 -35.41 -27.08 -23.44	29.27 54.16 47.12 80.00	11	10.1 6.5 5.0 \$.1	28.3 20.1 18.8 11.3	3.6 1 8.4 1 8.1 1 8.9 1
3800-4000 4000-4800 4800-8000	1238.20 1231.79 1228.20	277.00 2	07.28 321.86 99.50 313.28 92.00 308.69	330.88 :- 322.75 :- 315.50 :-	188.68	-87.50 -83.33 -83.33	-56.25 -53.25 -50.00	-22.91 -20.83 -18.75	50.00 41.66 68.75	11	2.7 2.6 4.6	0.4 : 0.0 i 0.0 i	0.6 7.6 8.6
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1221.34 1214.50 1208.10 1201.55 1195.50	237.20 2 228.70 2 218.20 2	79.50 294.75 64.25 280.56 51.70 267.50 39.20 254.80 28.60 242.90	305.78 - 289.69 - 277.25 - 264.06 - 251.10 -	-187,80 -138,41 -138,68	-87.50 -72.81 -83.41 -80.02 -58.64	-45.63 -43.36 -39.56 -33.33 -30.07	-10.66 -16.66 -16.66 -10.03 -6.64	80.41 43.28 43.38 83.28 80.00	11	8.7 2.1 2.8 3.0 1.6	12.2 7.7 6.4 7.8 4.7	10.1 9.0 10.8 12.9 14.0
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1183.40 1177.70 1171.80	190.40 20 183.20 20 178.30 1	19.40 232.40 09.10 222.20 00.10 212.80 91.50 204.30 83.20 195.70	241.00 - 230.00 - 218.46 - 210.40 - 201.10	113.28 -113.28 -100.00	-80.02 -80.00 -48.81 -43.38 -43.38	-29.88 -26.89 -26.76 -23.30 -23.30	-0.84 -0.80 -0.84 -8.64	56.64 43.36 46.74 38.97 40.10	11	3.4 : 2.6 : 2.3 : 1.6 :	6.8 : 4.7 ! 4.4 ! 3.8 !	10.0 13.6 13.0 14.0 14.6
15000-16000 18000-17000 17000-18000 18000-18000 18000-20000	1188.20 1181.10 1145.50	189.10 1 183.80 1 147.80 1	75.80 187.80 68.40 180.60 62.40 172.60 56.10 165.50 49.00 187.80	185.40 177.10 169.80	-89.97 -82.52 -70.00 -79.01 -58.04	-30.87 -36.89 -31.98 -32.03 -32.03	-23.30 -21.88 -20.00 -18.04 -17.88	-8.84 -7.87 -7.87 -8.02	43.30 31.85 23.80 23.80 13.80	11	1.1 : 1.0 : 0.4 : 2.2 : 0.3 :	3.2 2.8 1.0 1.7 0.6	14.1 12.0 10.6 14.3 0.7
20000-21000 21000-22000 22000-23000 23000-24000	1131.30 1128.90 1122.00	133.30 1 129.00 1 124.20 1	43.00 101.40 37.80 146.18 32.90 139.40 28.00 133.40 23.20 127.80	148.70 142.80	-85.80 -47.86 -43.86 -36.01 -33.86	-28.01 -23.88 -22.03 -20.00 -20.00	-16.01 -16.01 -18.84 -14.06 -13.86	-10.00 -10.00 -10.00 -10.00 -10.00	10.00 10.00 8.02 2.03 3.86	11	0.8 0.1 0.1 0.1 0.1	0.7 0.4 0.1 0.1 ! 0.2	0.0 5.0 6.2 4.0
25000-26000 26000-27000 27000-26000 28000-29000 28000-30000		112.30 1 108.10 1 104.50 1	18.90 122.80 14.80 118.10 10.80 113.80 08.50 108.80 02.90 105.00	125.30 120.40 115.70 110.70 106.60	-27.96 -26.97 -22.03 -18.04 -17.86	-18.04 -18.01 -18.01 -14.08 -13.96	-13.98 -13.88 -12.03 -12.03 -11.96	-11.98 -11.98 -10.00 -10.00	-2.03 -3.88 -6.02 -6.02 -7.97	11	0.0	0.1 0.2 0.0 0.0	1.7 4 1.4 6 1.0 1 0.0 1
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	93.20 99.90 88.20 62.80 60.04	94.60 91.00 87.90	98.50 101.30 96.20 97.90 92.60 94.30 89.20 90.60 86.70 87.60	99.00 95.40 91.80	-10.01 -23.98 -14.06 -23.96 -22.03	-12.03 -12.03 -12.03 -12.03 -10.00	-11.95 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7,97	-7.87 -7.87 -7.87 -7.87 -7.87	11	0.0 1	0.0 1	0.2 0.6 0.1 0.0

1200Z FIGURE B-1-1-C

MERIDA WET SEASON

THICKNESS STATISTICS

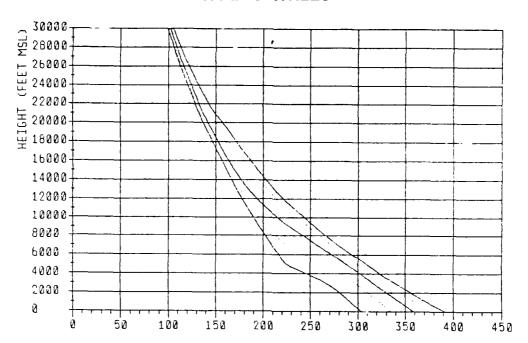
BASE			DUCT	'S RCENTIL				SRLI	s RCENTII				NORM					8 UB		
PT MEL	i	MFRQ	10%	80%	Box	i	XFRQ	10%	50%	20x	i	XFRQ	THK P	ERCENTI 50%	90%	XPR		HOX P1	ercentii 50%	90%
27C-800	•	33.3	161	259	388	+-	39.7	98	289	456	•-	98.6	908	7874	34978	10.		161	358	689
800-1000	ì	0.7	- 34	298	482	i	2.4	98	295	846	•	8.4	98	6348	34483			98	197	1476
1000-1800	i	1.1	256	492	630	i	3.8	9.0	591	1083	i	4.1	98	8266	34001	1.		99	691	1791
1800-2000	i	1.9	296	394	100	i	4.0	14	841	984	i	3.4	94	3248	33499	i .		197	837	1132
2000-2500	i	1.7	197	394	708	1	2.0	9.0	492	888	i	8.6	98	6397	33006	: i.		256	669	1732
2800-3000	ı	2.1	98	290	669	1	4.0		394	984	i	8.7	96	5167	32307	1 2.		96	935	2067
3000-3800	ı	1.0	98	384	680	ı	2.6	98	197	986	1	8.4	9.6	5414	31924	1 1.	. 3	98	787	1762
3500-4000	1	0.7	98	298	787	1	2.4	96	492	984	t	2.9	98	6019	31431	2.	. 1	98	984	1378
4000-4500	t	1.0	138	394	850	1	2.6	94	492	888		3.4	9.8	6004	30870	: 1.	3	98	840	896
4800-8000	1	2.1	197	298	689	1	5.7	9.8	394	886	1	8.0	197	6397	30250	1 1.	. 4	295	492	1280
8000-8000	7	2.0	20	295	849	;	8.7	98	394	888	- + -	12.3	394	6693	29758	1 2.	. 9	98	541	1003
6000-7000	ŧ	2.1	9.6	295	492		8.5	98	295	787	1	8.5	423	5266	28449	1 2.		98	394	994
7000-8000	ı	1.0	96	295	691	1	8.4	98	295	689	1	7.4	98	5807	27691	3.		98	591	1478
8000-8000	1	1.4	98	295	492	1	4.4	98	298	591	:	9.6	9.8	3297	26838	4 .	9	96	492	1201
9 000-10000	ı	1.4	9.0	295	384	1	3.3	98	295	591	;	8.5	98	1520	25824	1 4.	4	98	492	984
10000-11000	ī	3.2	98	197	295	1	5.6	98	295	492	- + ~	14.7	9.0	5413	24837	. 8.	. 6	98	394	1161
11000-12000	1	2.1	98	197	298		3.2	98	298	492	i	10.3	9.6	3839	23656	ě.		98	492	1339
12000-13000	i	1.2		88	285	t	2.2	96	197	394	1	7.9	88	4282	22770	. 5.		98	492	1181
13000-14000	1	1.3	98	90	295	:	2.2	98	197	394	t	7.9	98	3101	21687		1	98	591	1083
14000-18000	1	1.2	98	9.0	197	:	2.0	94	246	295	1	8.4	98	3448	20673	1 5.	. 6	98	492	1112
15000-16000	1	1.0	96	#8	197	7	2.5	98	197	295	- + -	8.1	88	3314	19348	. 7.	. 6	98	427	1017
16000-17000	ı	0.9	131	164	203	ł	1.4	164	164	328	í	7.9	164	5807	18701	8.		131	492	1148
17000-18000	1	0.7	104	164	164	ı	0.7	164	164	312	ŧ	8.5	426	4921	17717	. 8.		164	492	1148
18000-19000	1	2.4	164	164	164	1	1.6	164	164	278		11.1	656	15912	16569	. 9.		164	492	837
19000-20000	1	0.3	184	164	164	1	0.7	164	164	326	ŧ	7.1	1640	15256	15746	4.		164	492	984

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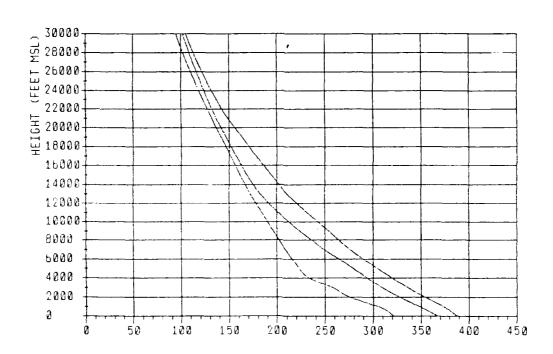
			DUCT	'S RCENTIL			SRL	rs Ercentii	. 20			NORM	al Ercenti			SUB	RCENTI	
DASK FT MEL	i	XFRQ	10%	50%	90%	MFRG		50%	BOX	i	XFRQ	10%	80%	90%	MFRQ	10%	50%	90%
SPC-800		8.8	82	298	699	21.6	98	378	1280	+ -	92.5	289	1834	34077	41.1	259	358	492
500-1000	ı	3.4	90	492	787	13.5	9.0	591	1476	1	17.3	9.0	2461	20886	1.8	98	197	591
1000-1500	t	7.0	197	482	886	1 10.6	98	591	1417	1	9.5	98	3740	33794	1.0	148	492	1230
1800-2000	1	4.6	295	492	787	9.6		394	1181	ŧ	12.9	99	4627	33302	2.8	296	689	1417
2000-2500	ŧ	2.2	197	394	787	1 7.6	98	841	1280	t	12.8	96	3642	22599	2.7	296	591	1309
2500-3000	1	3.1	93	492	609	1 6.3	98	841	1083	:	12.4	96	2608	16562	3.1	295	591	1122
3000-3800	1	1.3	187	298	699	4.6	98	492	1053	1	9.5	98	1870	14612	2.5	298	591	1240
3800-4000	1	1.7	197	394	689	: 3.6	98	394	955	1	7.4	9.8	1772	13885	3.7	98	591	1161
4000-4500	ł	1.2	177	482	728	1 3.7	9.8	492	787	:	7.0	98	2382	12284	3.9	236	591	846
4500-5000	1	3.9	9.0	246	991	1 8.5	99	197	689	!	9.0	98	5413	30250	5.1	197	443	1171
8000-8000	1	4.3	197	298	591	1 10.0	98	394	787	-	21.4	98	4921	29266	6.3	197	591	1280
6000-7000	1	1.6	146	384	581	: 5.1	94	394	889	1	10.8	98	3248	20348	8.2	98	591	1260
7000-8000		2.1	90	295	492	1 8.0	98	394	689	1	10.2	98	2658	27893	6.9	96	521	1339
8000-9000	- 1	2.7		197	394		90	295	591	ı	11.8	96	1969	26215	8.5	98	591	1478
9000-10000	1	1.5		197	374	3.0	98	298	463	:	10.0	9.6	994	25132	9.0	98	492	984
10000-11000	1	3.3	88	197	328	6.2	99	295	487	1	20.1	98	3347	24837	11.2	98	492	1240
11000-12000	ı	2.3	98	140	295	4.0	98	295	394	ı	11.2	9.6	2805	23380	9.2	96	591	1280
12000-13000	ı	2.1	9.6	197	295	3.1	98	197	394		12.3	9.0	2756	22883	9.0	98	691	1309
15000-14000	1	1.6	9.6	18	295	1 2.1	98	197	344	1	11.7	94	3150	21667	10.1	98	591	1093
14000-18000	ı	1.6	98	88	197	3.2	98	197	298	1	13.2	98	3478	20604	9.6	98	591	1181
		1.1	•	98	236	3.1	98	98	295	+-	11.3	98	2920	19521	8.8	98	394	1017
10000-17000	1	0.9		164	184	1 2.6	9.0	164	328	1	11.0	469	8022	18701	9.0	164	492	1148
19000-18000	1	0.4	164	184	164	0.1	164	164	279	1	8.0	558	13780	17717	7.5	184	492	1148
10000-18000	1	2.2	184	164	164	1 1.7	164	104	328	:	14.4	889	18912	16733	11.1	164	492	820
10000-20000		0.3	164	184	164	0.0	164	164	184		0.8	1214	16092	18746	8.0	164	492	837

1200Z

FIGURE B-1-1-D



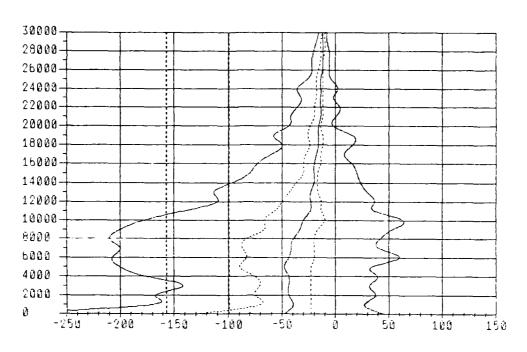
N (N-Units) 0000Z



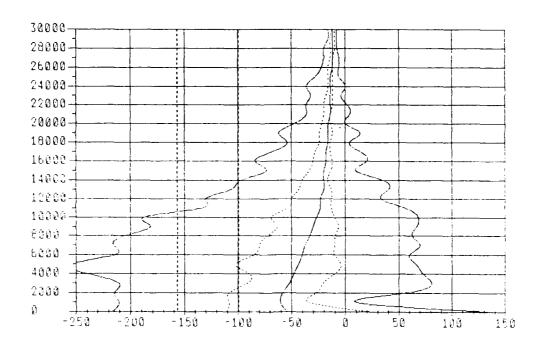
N (N-Units) 1200Z

FIGURE B-1-2-A

GRADIENT PERCENTILES



DNDH (N-Units) 0000Z



DNDH (N-Units) 1200Z

FIGURE B-1-2-B

WET-DRY TRANSITION

MERIDA

HOT PT MOL	18	N PERCENTILES	90%	994	1%	DMD 10%	E PERCENTII	90X	221	11	PERCENT DUCT	SELR I	
#FC-#00 900-1000 1000-1800 1800-2000 2000-2800 2000-3000 3000-3000 4000-4000 4000-4000	\$12,72 287.87 280.08 278.06 273.06 273.00 288.87 283.26 284.42 240.60	342.88 368.00 328.72 348.88 320.88 341.86 315.00 334.38 307.89 328.80 300.28 318.80 282.88 311.88 288.82 300.28 277.98 288.89	362.50 371.50 363.69 365.84 348.50 340.19 331.75 524.56 317.18	380.11 380.06 374.23 380.60 358.00 348.75 340.06 332.08 324.06 317.73	1-178.16 1-182.80 1-188.28 1-178.28 1-178.28 1-180.00 1-141.12 1-180.41	-184.21 -66.68 -68.75 -70.63 -72.91 -77.08 -71.87 -70.63 -75.00 -61.25	-38.08 - -38.08 - -41.86 - -43.76 - -48.76 - -48.76 - -48.77 - -43.77 -	28.00 22.91 22.91 22.81 22.81 23.30 23.11 22.91 22.91	283.40 14.04 22.39 28.16 41.66 33.33 37.50 33.33 38.08 70.31		27.8 0.6 2.8 3.0 1 2.8 1 1.7 1 1.8 1 2.6 1 0.6 1	39.0 2.8 3.0 6.5 6.5 6.4 6.0 4.2 1	1.8 1.6 2.6 3.6 4.1 5.0 5.5
5000-6000 8000-7000 7000-8000 8000-8000 9000-10000	1224.37 1218.90 1208.58 1201.20 1194.50	280.88 288.88 240.88 270.88 224.80 258.08 211.30 240.20 201.80 224.80	298.18 284.00 270.88 258.00 245.40	308.08 1 291.50 1 278.08 1 265.06 1 262.31	1-205.90 1-204.66 1-208.64	-89.58 -83.33 -86.59 -79.85 -63.41	-43.78 -: -41.66 -: -37.80 -:	20.83 20.08 19.92 19.92	39.68 60.07 43.24 37.46 60.02	11	7.0 7.4 7.5 6.1 6.4	14.7 13.4 15.4 14.9	0.3 0.4 0.1
10000-11000 11000-12000 12000-13000 13000-14000 14000-10000	:182.07 :176.40 :170.50	184.40 212.30 187.10 201.00 180.80 191.20 174.10 182.80 188.10 174.40	233.80 222.10 211.80 202.13 192.70	241.42 228.70 218.72 208.70 200.20	1-133.33 1-113.28 1-113.32	-66.66 -86.64 -46.61 -43.23 -33.33	-28.44 - -28.30 - -20.08 -	10.03 13.28 13.41 16.66 13.41	64.16 36.71 37.37 28.69 20.05	11	8.7 : 8.2 : 2.6 : 8.1 : 1.6 :	10.8 6.5 4.5 9.1 3.6	16.0 i 9.4 l 9.0 i 7.8 l
18000-18000 18000-17000 17000-18000 18000-18000	1188.00	162.60 167.70 107.40 161.60 102.10 106.00 148.60 100.70 141.80 146.10	184.60 178.80 188.50 181.80 184.70	192,00 184,58 176,10 189,80 181,21	-75.76 -52.03 -53.98	-30.07 -30.00 -26.01 -24.06 -28.01	-17.98 - -17.98 - -18.01 -	18.41 13.88 13.88 11.85	23.44 14.86 8.02 20.66 3.86	11	1.0 0.7 0.4 0.6 0.3	2.8 2.2 0.4 0.8 0.8	8.8 4.8 7.9
20000-21000 21000-22000 22000-23000 23000-24000 24000-28000	1131.40 1127.20 1122.60	137.20 140.30 132.80 138.70 128.60 131.30 123.90 128.80 118.90 122.30	147.80 141.80 138.60 131.20 128.10		-32.03	-22.03 -20.00 -18.04 -17.86 -17.86	-14.08 - -13.98 - -13.98 -	13.98 12.03 11.95 11.95	-1.95 1.95 2.03 0.00 2.03	11	0.2 0.0 0.2 0.0 0.2	0.2	2.3 2.6 2.7 2.7
25000-25000 26000-27000 27000-28000 26000-28000 28000-30000	1111.08	118.00 118.25 112.20 114.40 108.10 110.30 104.60 106.30 101.10 102.80	121.50 117.10 112.80 108.40 104.60		-21.98	-16.01 -16.01 -14.06 -13.98 -13.86	-12.03 - -12.03 - -12.03 -	11.95 11.98 10.00 10.00	-6.02 -8.02 -5.84 -7.97 -8.05	11	0.0 0.0 0.0 0.0	0.0 1	1.2
3000-\$1000 31000-\$2000 32000-\$3000 33000-\$4000 34000-\$6000	1 85.30 1 89.60 1 86.10	97.80 99.50 94.60 96.20 91.10 92.70 87.90 89.20 95.70 98.70	101.10 #7.70 #4.30 #0.60 #7.60	98,30 F	1 -16.01 2 -17.86 1 -18.06 1 -22.03 1 -22.03	-12.03 -12.08 -12.03 -12.03 -10.00	-10.00 -: -10.00 -: -10.00 -:	10.00 10.00 10.00 10.00	-7.87 -7.87 -7.87 -7.87 -7.87	11	0.0 t 0.0 t 0.0 t 0.0 t	0.0 1	0.0 I 0.0 I 0.0 I

0000Z

HOT PT MSL	1%	n percenti 10% 5	LES CK 90%	Pox	1 1%	DMD 10%	PERCEN	TILES	99X	11	PERCENT DUCT	OCCURR SRLR	
SFC-500 500-1000 1000-1500 1500-2000 2000-2500 2500-3500 3500-3500 2500-4500 4500-5000	:326.22 :313.62 :306.62 :203.73 :205.95 :205.96 :205.76 :233.60 :233.60	349.22 371 340.00 364 330.75 354 321.70 343 313.06 322 302.64 322 291.89 312 282.38 304 274.37 296 263.56 269	.75 375.87 .19 366.87 .25 356.70 .68 347.00 .18 337.04 .69 327.54 .50 318.68 .56 311.68	384.04 378.38 368.02 368.24 348.78 338.86 327.37	I-281.28 I-183.33 I-203.71 I-210.41 I-238.00 I-216.68 I-232.70 I-216.00 I-226.00 I-226.00	-106.28 -106.28 -112.50 -114.66	~38.08 ~60.41 ~62.00 ~60.41 ~60.41 ~76.20 ~74.18 ~70.00 ~47.81 ~40.63	89.08 -21.04 -73.38 -35.33 -29.16 -23.30 -20.88 -16.68 -10.42 -8.33	170.83 47.91 9.98 18.86 43.41 70.63 84.63 84.63 84.33 83.33		10.0 t 6.0 f 6.4 f 6.8 f 6.6 f 6.4 f 4.7 f 5.8 f	12.9 16.2 13.3 16.6 16.4 10.0 4.8 4.8 14.6	44.7 6.4 2.2 3.1 5.0 7.2 7.8 7.9 10.0 13.2
5000-6000 8000-7000 7000-8000 8000-8000 9000-10000	:222.30 :215.00 :208.80 :201.17 :184.80	231.20 262 219.00 247 209.80 233	.30 267.56	287,69 278,38 283.08	1-240.89 1-213.67 1-214.19 1-205.48 1-169.82	-100.00 -85.41 -78.85 -70.05 -60.02	-43.75 -39.97 -37.50 -33.33 -29.96	-4.17 -10.42 -10.03 -9.90 -6.64	60.98 89.92 86.66 84.26 73.30	11	10.9	18.2 ! 13.9 ! 11.2 ! 9.7 ! 8.0 !	14.8 12.6 15.2 12.8 16.0
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1182.30 1178.80 1170.80	193.80 208 186.70 198 180.30 189 173.90 180 168.10 172	.40 220.20 .10 210.00 .80 201.00	228.42 218.12 208.80	-179.96 -136.82 -120.73 -103.38 -93.38	-66.66 -63.26 -60.00 -43.28 -36.71	-26.69 -23.30 -23.30 -20.08 -20.08	-10.03 -13.28 -13.28 -13.41 -16.66	84.23 80.00 29.95 '43.36 20.05	11	7.2 3.7 2.4 1.4 1.6	10.7 7.4 8.6 4.4 2.7	18.1 (10.9 (9.0 (10.8 (6.7 (
15000-16000 12000-17000 17000-16000 16000-18000 18000-20000	;185.00 ;150.10 ;144.80	157.30 161 152.10 155 146.60 150	.60 166.60	183.20 178.20 187.84	1 -74.34 1 -80.00 1 -87.96 1 -88.76 1 -47.82	-33.33 -29.86 -26.01 -23.88 -23.88	-18.92 -17.96 -17.96 -16.01 -16.01	-13.41 -13.88 -18.86 -12.03 -13.88	13.41 17.88 10.33 12.78 1.80	11	1.1 0.8 0.6 0.7 0.1	1.6 1.9 1.1 0.0 0.3	6.5 6.6 4.3 6.6
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1131.00	137.20 139 132.80 136 128.60 131 123.90 128 119.80 122	.40 140.80 .00 138.80 .80 130.40	140.80 140.80 134.91	-43.86 -40.00 -32.03 -32.03 -33.96	-20.00 -20.00 -18.04 -17.88 -18.01	-18.84 -14.06 -13.86 -13.86 -13.86	-13.98 -12.03 -11.96 -11.95 -11.95	2.02 4.08 0.00 -2.02 -2.03	11	0.4 0.0 0.0 0.0 0.1	0.5 0.0 0.1 0.0 0.3	2.0 t 3.7 t 2.0 t 2.3 t 3.1 t
25000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1108.49	112.10 114 108.00 110 104.80 108	.00 120.80 .20 116.80 .10 112.40 .20 108.10 .80 104.80		1 -21.98 ! -20.00 ! -17.86	-18.01 -14.08 -13.98 -12.98 -12.03	-13.88 -12.03 -12.03 -11.88 -11.85	-11.95 -11.95 -10.00 -10.00	-6.02 -7.87 -7.87 -7.87 -8.08	11	0.0 0.0 0.0 0.0	0.0 I 0.0 I 0.0 I 0.0 I	0.9 0.6 0.7 0.3 0.4
30000-31000 31000-32000 32000-33000 33000-34000 34000-33000	: 89.38 : 65.65 : 82.50	94.80 98 91.00 92 87.80 89	.80 101.10 .10 97.70 .80 94.30 .20 90.80 .70 97.80	102.50 98.90 95.30 91.32 88.20	1 -16.01 1 -18.01 1 -20.00 1 -21.85 1 -18.04	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	1 1 1 2 3 1 1 1	0.0 0.0 0.0 0.0	0.0 (0.0 (0.0 (0.0 (0.1 0.1 0.1 0.0 0.0

1200Z FIGURE B-1-2-C

MERIDA

WET-DRY TRANSITION

THICKNESS STATISTICS

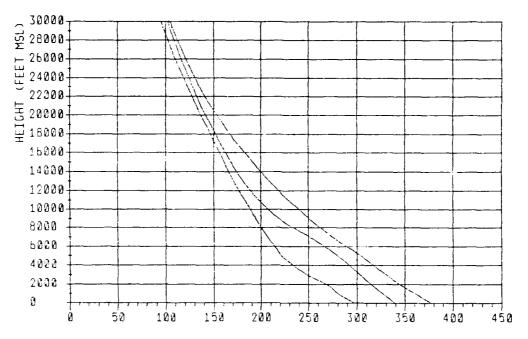
2422			DUCT	e Browntil			SRL	rs Ercentii				MORM THE P	al Ercenti			SUB	ercent I	
Pase Pt wel	i	XFRQ	10%	SON	90%	XFRQ	10%	80%	80%	1	XFRQ	10%	50%	90%	XFRQ	10%	50%	DOX :
SFC-800	1	27.8	161	259	380	39.8	98	269	412	1	98.4	1587	8693	34877 :	8.3	98	358	1190 1
600-1000	ŧ	0.2	482	482	482	1 1.1	98	1181	1969	3	2.3	9.0	5266	34414	0.6	28	2264	4036 :
1000 -1800	1	2.3	157	492	620	1 2.0	286	787	1142	1	1.2	90	9252	34108 1	0.8	891	891	886 :
180 0-2000	ı	1.4	197	394	492	3.8		197	603	1	3.6	9.6	6299	15867 I	1.1	394	591	1476 :
890 0-2500	ı	1.0	128	394	809	1 2.7	98		1181	1	4.4	9.0	8413	28025 :	1.6	96	669	2402
9900-3000	1	1.4	197	394	445	1 3.9	98	39 1	1083	1	4.1	98	- 220	24802	i - 0	338	492	984 :
6660-2 800	1	0.8	197	482	492	1 1.0		148	1053	1	5.3		3180	9882	0.9	991	886	1476
9000-4 000	1	1.2	••	394	787	1 3.3	9.8	394	955	1	3.0	108	1376	6053 (1.1	98	840	1575
4500-4500	ŧ	1.0	94	482	689	3.5		394	846	;	3.5	96	1969	8169 :	2.0	98	443	787 :
6000 - 5000	۱ - • •	4.4	197	298	871	7.0	98	394	886		9.5	98	4232	30250 1	3.4	96	394	1635 !
9000-6000	1	8.2	9.0	394	691	11.0	98	295	787	1	17.4	94	4823	29896	5.7	98	669	1919
8000-7 000	ı	●.0	197	394	591	11.0	98	394	787	1	13.6	98	4134	28872 1	5.1	98	689	1368
7000-8000	ı	6.5	187	298	492	1 10.8	98	394	689	ı	16.4	94	6116	27888 !	4.8	98	840	1083 :
8000-8000	ŧ	8.5	30	298	492	11.2	96	295	591	1	15.4	98	8102	26845 1	5.1	167	986	1437
9000-10000	. 1	5.4		288	492	7.3	20	197	492	1	12.9	98	2904	25723 1	9.3	98	492	1004
10000-11000		4.9	90	197	394	3 4.9	9.0	197	492		22.1	98	5118	24935 1	9.3	96	394	1181
11000-12000	1	2.9	24	197	384	1 8.0	98	197	394	- 1	11.6	96	2756	23784 1	8.1	88	492	1181 (
12000-13000		2.3	94	197	295	1 4.1		197	394	ŧ	.0	20	8656	22789 :	6.1	96	640	1211 :
13000-14000	t	3.1	**	197	295	1 4.8	90	197	325	+	10.2	98	6644	21795 :	4.8	9.9	492	1142 :
14000-18000	1	1.2	**	80	295	1 2.8	94	197	394	1	7.1	96	10729	20834	4 . 8	98	482	1083
18000-16000		1.0	94		197	1 1.9	9.8	197	285	- • -	8.0	98	2890	19521	4.2	98	541	1066
16000-17000	i	0.7	131	164	184	1 1.7	184	164	318	t	8.2	476	9108	18701	3.1	197	492	984 !
17000-18000	- i	0.4	104	164	164	1 0.4	164	164	164	i	3.4	361	4429	17619 :	3.2	164	820	1427 1
18000-19000	i	0.6	184	164	164	1 0.9	184	164	164	i	7.7	492	15812	18078	6.3	164	492	820 1
19000-20000	i	0.3	104	164	164	1 0.5	164	164	164	1	2.7	1936	15174	18800 (1.4	184	328	1148

0000Z

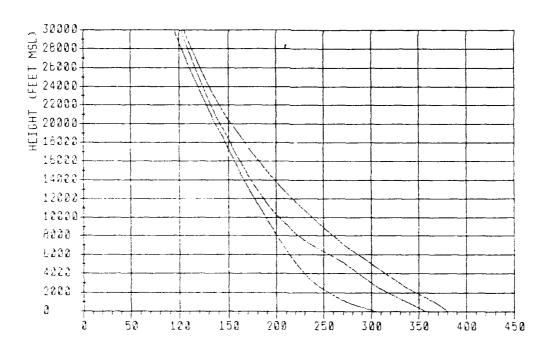
			DUCT				SRL					NORM				202		
Pase Ft Mel	1	KFRQ	10%	RCENTIL SON	ecx !	XPRQ	THK P	ercentii 50%	#OX	ł	XFRQ	THE P	ercenti Son	90%	MFRQ	THX PE	RCENTII Bux	90%
27C-500	- + -	10.0	82	388	884	19.9	98	398	1083	+-	91.3	350	3839	34778 (44.7	259	358	492
B00~1000	1	2.3		295	787 1	7.8	38	394	1280	:	14.8	96	3051	18782 :	1.2	197	394	666
1000-1600	1	4.3		482	649 :	8.7	**	689	1280	1	6.6	96	3180	33794 :	1.2	197	591	787
1500-2000	1	3.4	138	492	906	7.0	94	691	1240	ſ	7.2	96	3150	16762	2.0	98	738	1969
2000-2500	1	2.6	197	394	898	7.3	90	492	1063	:	6.9	98	2559	7874 1	3.2	138	492	1220
2500-5000	t	4.7	187	394	669	7.2	9.0	295	1073	;	13.2	98	2118	29930 t	3.7	236	591	1519
3000-3500	1	2.6	285	394	591	4.8	20	295	767	t	8.9	98	1878	7923 1	3.4	148	591	1476
2800-4000	1	3.2		443	649	8.4	9.8	298	886	1	6.9		1101	31230 :	4.2	9.8	984	1368
4000-4500	1	3.8		443	881 :	5.6		492	878	1	6.4	98	1476	10118	5.1	177	591	1220
4500-5000	1	5.9	197	295	591	10.4	90	295	850	1	16.2	9.0	2953	30250	5.9	98	492	1476
8000-6000	1	8.0	98	285	822	13.3	98	394	787	;	24.8	90	3150	29857 1	9.0	90	591	1408
6000-7000	1	7.9	187	384	482	10.3	98	295	591	1	17.0	98	3445	28872	7.2	98	591	1690
7000-8000	-1	7.2		295	492	9.2	98	344	689	1	17.6	9.0	2510	27593 1	8.3	98	492	1181
8000-8000	1	8.3	90	295	492	7.3	96	295	492	:	17.8	9.0	2362	28854	8.7	90	591	1368
9000-10000	1	4.3	**	197	394	8.2	98	197	394	1	13.3	98	1280	25624	10.0	30	492	984
0000-11000	- 7 -	8.4	9.0	197	394	9.7	9.0	197	492	;	22.5	98	6644	24938	9.6	98	689	1368
1000-12000	1	3.3	96	187	384	6.6	98	295	394	•	11.2	98	2756	23951 :	8.6	197	669	1260
2000-13000	1	2.1	98	187	236	4.0	88	248	384	ŧ	10.8	197	8037	22868 1	5.7	9.8	591	1309
8000-14000	1	1.4	•	140	285	4.0	28	295	295	1	9.3	9.0	5413	21687 :	8.7	9.6	492	1083
4000-18000	1	1.0	**	38	197	2.1	98	148	325	1	7.7	9.0	14371	20830	2.9	98	394	1083
9000-16000	1	1.1	98	19	295	1.4	98	197	276	;	8.8	98	2986	19841 1	8.0	88	525	925
600 0-17000	- 1	0.4	121	164	164	1.9	131	164	289	;	6.5	538	14646	18714 :	4.3	100	501	968
7000-18000	1	0.6	164	104	164	1.1	164	164	184	:	4.7	984	17081	17717 :	2.3	184	328	951
8000-18000	1	0.7	164	164	164	0.9	164	164	326	;	8.0	771	15912	16733 :	5.5	184	492	820
8000-20000	ı	0.1	164	164	184	0.3	184	164	164	1	3.1	2526	15092	18748 1	1.7	213	492	771

1200Z

FIGURE B-1-2-D



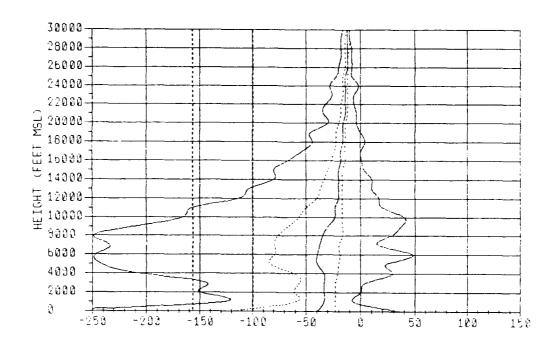
N (N-Units) 0000Z



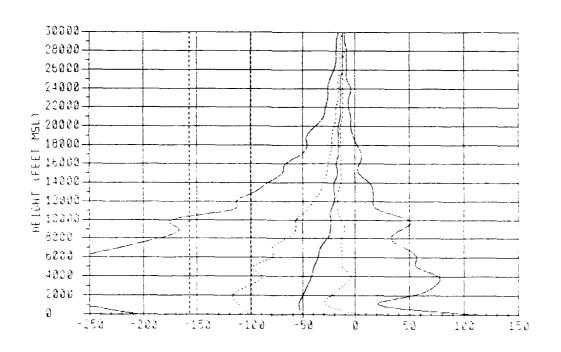
N (N-Units) 1200Z

FIGURE B-1-3-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-1-3-B B-12

HOT FT MSL	1 1 %	M PERCENTILES	90%	99%	1%	DNDH 10%	PERCENTILES SON SON	90X 1	PERCENT DUOT	OCCURRENCE STE
87C-800 500-1000 1000-1800 1600-2000 2000-2800 2000-3800 3000-3800 4000-4800 4500-9000	:301.87 292.98 :279.58 :276.48 :276.22 :260.15 :249.08 :236.27 :234.30	323.38 348.00 314.78 356.08 308.78 350.28 304.61 324.38 298.75 318.88 293.88 312.00 288.18 308.98 292.88 300.08 278.88 294.50 289.78 299.00	358.25 351.38 344.25 338.89 329.06 321.68 315.75 309.89	371.19 363.50 386.76 347.25 338.69 331.69 324.66 318.19	:-432.98 :-133.33 :-120.96 :-133.33 :-160.00 :-137.50 :-144.00 :-170.83 :-256,18	-60.41 -56.33 -60.41 -62.80 -60.41 -56.25 -68.25	-86.78 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -22.91 -35.33 -20.03 -35.41 -20.03	127.08 -4.17 -6.12 -4.17 -2.08 2.06 4.17 6.25 20.63 33.33	1.1 ! 1.0 ! 1.3 ; 1.8 ! 1.8 ! 1.8 !	32.8 : 8.5 : 0.6 : 2.8 : 0.8 : 1.0 : 0.8 : 2.8 : 1.0 : 3.3 : 1.5 : 2.7 : 1.6 : 2.7 : 1.6 : 2.2 : 1.8 : 3.4 : 2.8 : 6.6 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 : 4.8 :
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1220.71 1213.30 1206.40 1188.30	249.09 279.00 228.60 265.19 217.50 260.90 208.00 232.90 200.20 217.10	293,38 279.80 267.00 283.80	303.00 288.00 274.69 261.69	:-246.30 :-232.11 :-233.33 :-239.87 :-189.97	-83.33 -78.16 -79.27 -76.22	-39.68 -20.06 -39.68 -19.76 -37.60 -18.82 -33.33 -16.66 -29.86 -16.98	26.42 ! 46.74 ! 16.66 ! 29.05 ! 43.23 !	9.3 i 9.3 i 9.3 i	11.0 4.6 12.1 6.1 12.1 6.7 12.5 6.8 6.6 7.6
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1181.00 1178.40 1188.60	193.10 205.80 188.20 195.90 178.90 187.40 173.60 173.60 187.80 172.60	217.60 208.40 196.70 187.10	226.70 216.10 208.80	I-170.05 I-143.34 I-113.28 I-96.74 I-83.33	-46.74 -39.87 -36.88	-23.44 -16.66 -23.30 -16.66 -20.08 -13.41 -20.08 -16.66 -20.08 -16.66	36.58 16.66 16.66 13.28 6.64	4.6 : 2.3 ! 2.2 !	7.4 : 8.7 : 6.7 : 6.7 : 6.2 : 4.3 : 6.4 : 3.6 : 6.0 : 2.6 : 3.6 :
15000-18000 16000-17000 17000-18000 18000-18000 19000-20000	:154.60 :148.90 :144.70 :139.99	182.40 188.80 187.30 181.20 182.10 188.80 148.70 180.20 141.90 144.80	170.22 162.90 156.60 150.20	172.10 164.40 157.40	1 -80.00 1 -82.03 1 -40.01 1 -38.93	-25,18 -23,88 -22,03 -21,85	-18.82 -16.66 -17.86 -14.08 -16.01 -13.86 -16.01 -13.86 -18.01 -13.86	3.38 1 0.00 1 0.28 1 8.02 1 -4.08 1	0.4 0.3 0.5	1.8 ! 2.8 ! 0.7 ! 2.8 ! 0.8 ! 2.8 ! 0.9 ! 4.8 ! 0.3 ! 1.8 !
20006-21000 21000-22000 22000-23000 23000-24000 24000-25000	:130.80 :128.30 :121.40 :118.70	137.30 140.10 132.90 136.60 128.70 131.20 124.10 128.80 120.10 122.40	138.70 134.80 130.10 128.30	139.10 133.71 128.40	-34.88 -30.00 -26.01 -26.01	-18.04 -16.01 -16.01 -16.01	-15.94 -13.96 -13.96 -12.03 -13.98 -11.95 -13.98 -11.95 -13.98 -11.95	-3.96 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97 -7.97	0.1 0.3 0.0 0.1	0.0 1.8 0.3 1.4 0.0 0.6 0.8 1.8 0.1 1.8
25000-28000 28000-27000 27000-28000 28000-28000 29000-30000	1108.20 1104.00 1 99.94 1 96.30	116.20 118.30 112.40 114.50 108.30 110.40 104.70 108.80 101.30 103.00	118.70 112.60 108.40 104.70	119.00 114.70 110.00 106.10	: -20.00 : -20.00 : -17.86 : -17.86 : -18.01	-14.06 -13.88 -13.88 -12.03	-13.88 -11.85 -12.03 -11.85 -12.03 -10.00 -11.85 -10.00	-8.05 -8.05 -8.05 -10.00	0.0	0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.3 0.0 0.3
	: 89.40 : 88.70	98.00 99.70 94.70 98.30 91.00 92.70 87.70 89.30 85.40 88.80	97.90 94.50 90.70	98.90 98.40 91.60	1 -22.03 1 -17.98 1 -22.03 1 -20.00 1 -14.01	-12.03 -12.03 -12.03	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.05	-7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87 -7.87	0.0 1	0.0 0.8 0.0 0.2 0.0 0.0 0.0 0.0

0000Z

HOT FT MSL	1%	N PERC	ENTILES 50%	DON	95x	1 18		DH PERCEN	TILES SON	99%	11	PERCENT DUCT	OCCURR BRLR	8UB 1
8FC-800 800-1000	315.37 299.54	334.84 324.89	301.75 354.44	374.00 387.58	376.50	1-187.5	0 -108.88 0 -100.00	-52.08	33.33	163.45	11	6.8 ! 4.4 !	19.3 : 11.4 :	31.0 1
1000-1500 1500-2000 2000-2500	1267.13 1267.08 1266.00	318,25 310,71 300,75	344.28 333.08 322.78	358.88 349.89 340.00	389.00	1-277.0	0 -108.25 6 -118.66 4 -118.12	-84.16	-29.16 -27.08 -25.00	20.12 28.00 43.78	11	8.4 9.1 9.6	11.2 : 14.6 : 14.0 :	2.4 1 3.4 1 4.8 1
2800-3000 3000-3800	1249.37	238.88 278.08	312.50 303.06	330.19 320.75	339.56	1-277.6	6 -116.66 8 -106.28	-50.00	-18.76 -14.88	60.41 72.91	11	10.5 i	18.2	7.4 1
3500~4000 4000~4500 4500~5000	:236.50 :231.94 :227.40	267.00 255.20 248.01	285.56 288.75 282.75	\$13.25 304.00 299.30	315.75	1-235.4	4 -49.58	-48.88	-10.42 -4.17 -2.08	80.85 82.50 95.83	11	8.2 1 9.4 1	11.0 9.9 10.8	#.3 11.7 13.8
5000-6000	:220.72	233.50	271.00	288.88	298.06	1-241.6	6 -93.75	-38.56	-12.50	56.25	-++-	11,7 :	17.2 /	10.7
8000-7000 7000-8000 8000-9000 9000-10000	1213.20 1206.43 1199.50 1183.40	223.30 214.80 206.80 199.80	254.80 238.20 222.90 211.80	274.75 282.75 250.20 238.10	270.95 258.68	1-250.0 1-216.6 1-178.6 1-173.4	6 -79.95 8 -63.41	-33.33 -26.69	-12.50 -13.41 -13.26 -10.03	83.38 80.00 38.71 83.28	11	9.8 9.5 5.9 5.4	13.0 14.2 10.8 7.8	10.8 t 9.8 t 9.0 t 10.3 t
10000-11000 11000-12000 12000-13000 13000-14000	1161.30	182.80 188.00 179.70 173.60	201.40 182.60 188.10 178.50	227,60 218,30 205,10 194,80	228.27 214.80	:-163.2 !-120.0 !-108.7	8 -46.81 7 -36.71	-23.30 -20.08	-13.41 -10.00 -13.41 -10.00	39.97 19.92 19.92	11	0.8 3.2 2.4 1.6	7.0 8.2 4.3 3.2	10.8 8.7 8.8 4.9
14000-15000	1164.80	197.80	171.90	185.70	195.90	-83.3	3 -30.07	-19.92	-18.41	8.24	-++-	1.6 /	2.6 1	4.2
15000~15000 16000~17000 17000~18000	1154.80	182.50 187.30 182.20	166.20 160.90 155.20	177.50 170.30 183.20	187.60 179.90 171.90	1 -62.7	1 -28.00 8 -22.03	-17.08 -18.01	-13.41 -13.98 -13.98	0.00 5.94 3.98	11	0.8	1.0 1	2.8 / 8.4 / 5.2 /
19000-19000		148.70	150.00	150.30		1 -50.7			-12.03 -13.06	7.98 -3.98	11	0.8 :	0.7 1	4.8 : 1.8 :
20003-21000 21000-22000 22000-23000 23000-24000 24000-25000	131.10 126.60 121.78	137.40 133.00 128.70 124.10 120.00	140.00 138.80 131.10 128.70 122.20	144.60 139.50 134.70 129.60 125.20		-30.0 -27.9	0 -10.04 6 -17.86 3 -16.01	-13.88 -13.88 -13.86	-13.98 -12.03 -11.98 -11.98 -11.98	-3.98 -4.72 -8.02 -5.84 -8.02	11	0.2 0.1 0.1 0.0	0.0 ! 0.2 ! 0.2 ! 0.2 !	1.4 ; 1.4 ; 1.8 ; 1.8 ;
25000-26000 26000-27000	1112.78	116.10	119.20	120.80	123.01 118.20	1 -22.0	3 -18.01 0 -14.08	-13.90 -12.03	-11.95	-7.37 -8.08	11	0,0 1	0.1 1	0.4 1
27000-28000 28000-28000 28000-30000		100.20 104.60 101.20	110.30 106.50 103.00	112.50 108.30 104.70	110.00	-18.0 -17.8 1 -17.8	8 -15.98	-11.95	-10.00 -10.00 -10.00	-8.08 -10.00 -10.00	11	0.0	0.0 ! 0.0 !	0.8
30000-31000 31000-32000 32000-33000	: \$2.88 : \$9.47 : \$6.00	\$7.80 \$4.40 \$0.80	99.60 99.30 92.70	101.30 87.80 94.40	98.00	: -22.0 : -17.9 : -22.0	6 -12.03	-10.00	-10.00 -10.00 -10.00	-7,97 -8.08 -7.97	11	0.0	0.0 1	0.4
33000-34000	82.50 79.90	47.80 45.30	89.20 88.75	\$0.70 \$7.80	91.80	1 -10.9	0 -12.03	-10.00	-10.00 -8.05	-7.87 -7.87	11	0.0	0.0	0.0 1

1200Z FIGURE B-1-3-C B-13

THICKNESS STATISTICS

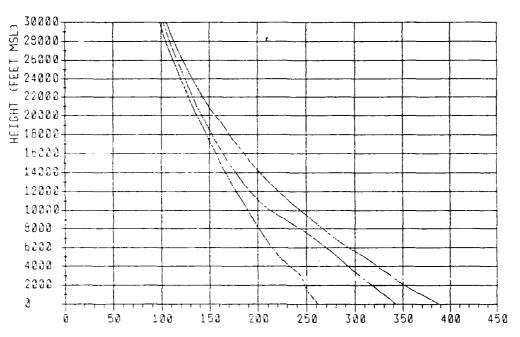
BASE			DUCT	'S RCENTI:			SRLI THK PI	es Ercentii				NORM THE P	al Ercenti			SUM THE P	ercentii	
PT MOL	í	XFRQ	10%	90%	90x	×FRQ	10%	BOX	90%	:	XFRQ	10%	50%	90%	XFRQ	10%	50X	90%
SFC-800	- • -	24.7		259	486	32.0	18	289	456	1	96.9	2428	7247	34877 1	8.3	94	259	486
800-1000	1	0.2	197	295	394	1.0		394	***	1	3.2	1142	5413	34680 :	0.3	98	98	295
1000-1800	ı	0.7	197	384	886	1.6	98	492	1043	1	1.6	98	4823	26166 :	0.7	9 &	492	1804
1800-2000	1	1.0	205	492	1004	1.6	98	641	886	ŧ	2.2	177	8397	33460 1	0.3	96	837	1875
2000-2800	1	0.0	128	295	787 1	1.9	28	295	1004	1	2.1	98	5512	32908 1	0.8	128	837	2037
2800-3000	1	1.2	167	482	820	1.9	96	443	817	1	2.9	90	4624	15847	0.5	9 6	184	2264
3000-1800		1.1	187	295	649	1.3	98	443	886	:	2.5	98	2786	11356 :	0.8	94	1378	1772
3800-4000	- 1	1.0	197	384	640	1.3		384	669	1	2.3	98	2756	31333 :	0.9	98	738	1280
4000-4800	- 1	1.0	**	384	991	2.7	9.8	197	689	;	2.4	9.0	1378	30998	1.1	98	689	1240
4800-8000	1	4.0	157	295	492	5.4	9.6	295	787	1	7.4	98	8004	30260	2.4	96	541	1476
\$000-6000	1	7.2	28	394	492	9.2	98	285	787	ī	15.0	138	8464	29916	3.3	108	689	1476
4000-7000	- 1	7.4	187	295	492	10.1	9.8	197	689	1	15.0	394	6989	28872 I	3.4	99	492	1614
7000-8000	1	7.8		208	482	10.	26	295	691	:	13.7	354	8957	27888 :	3.6	98	689	1880
8000-8000	:	8.0	**	298	492	10.8	98	295	851	1	15.8	354	26215	26943 1	4.4	98	492	1575
9000-10000	ı	4.8	10	295	492	7.6	9.6	197	394	1	12.4	94	13714	25021 :	4 . 6	58	492	1024
10000-11000	1	8.8	93	197	394	6.9	18	197	423	1	15.1	591	21064	24935 1	5.2	98	541	1211
11000-12000	ŧ	4.1	9.6	197	394	8.7	9.0	197	394	1	10.0	9.0	7644	23852	4.0	98	492	1280
12000-13000	t	2.0		9.6	295	3.9	9.8	197	394	ı	8,2	9.8	11286	22871 :	4.3	99	591	1280
13000-14000	1	2.1		90	197	2.9	90	197	394	1	7.7	98	21096	21785 1	3.7	96	344	1161
14000-18000	l	1.2	••	90	217	2.2	98	197	364	1	4.9	128	7484	20703	2.0	98	344	1083
18000-16000		0.8		18	98	1.4	98	197	295	7-	4.3	98	13074	19866	2.2	98	492	820
10000-17000	1	0.4	164	164	164	0.7	184	184	320	1	2 9	837	10373	1893	1.7	149	361	771
17000-18000	t	0.3	164	164	164	0.5	164	164	326	ŧ	3.0	1345	17388	17881 1	2.0	184	492	994
18000-19000	i	0.5	164	164	184	0.9	164	184	164	1	5.3	607	15994	16569 :	3.8	164	328	820
19000-20000	i	0.4	184	164	104	0.3	144	184	164	,	1.9	3117	15092	15584 :	1.3	164	328	820

0000Z

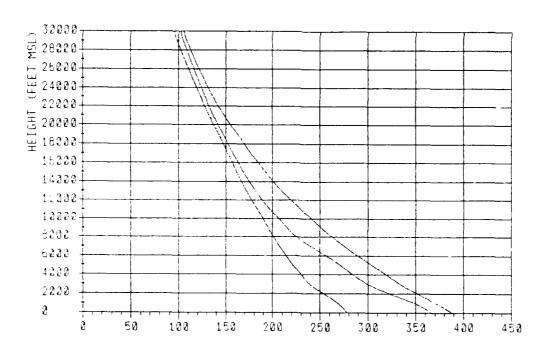
DASE			DUCT	S RCENTIL			SRLI THK PI	rs Ercentii				MORM				SUB		
PT MOL	j	EFRQ	10%	80%	90x	XFRQ	10%	50%	90x	1	XPRQ	THK P	ERCENTI 50%	90%	: XFRQ	THE PI	RCENTII 50%	90% :
SPC-800	ī	8.8	62	259	478 1	19.3	90	358	876	- • -	92.2	368	3114	19033	31.9	197	358	554
800-1000	1	2.0	98	443	896 1	6.6	9.9	394	1378	1	14.3	98	3199	8878	1.7	9 8	295	837 :
1000-1500	1	4.3	9.0	492	489 1	5.6	96	394	1171	- 1	3.6	98	2313	11794	1 1.4	9.0	591	1083 :
1800-2000	1	8.8	187	492	896	8.3	9.0	394	1083	1	7.6	98	3101	11466	2.0	187	689	1919 :
2000-2800	ı	4.8	197	482	886 :	7.1	98	295	896	ı	8.7	98	2559	8268	2,4	9.8	591	1280 1
2500-3000	ı	0.2	197	492	489	9.7	96	304	984	1	11.7	98	1673	32219	4.5	98	738	1900 :
3000-3800	1	4.3	187	394	989	6.5	98	384	807	:	11.4	98	1722	24722	3.2	9.6	787	1585 :
3000-4000	ı	4.0	197	394	691 :	€.0	9.8	394	787	:	9.0	98	1378	31431	4.2	9.0	787	1101 :
4000-4800	1	3.4	9.8	285	591 :	8.0	98	394	***	:	9.7	98	2165	31018	5.7	98	689	984 :
4500-8000	! • • •	7.9	197	295	492 1	7.2	9.0	295	689	:	17.3	98	3002	30349	8.5	9.0	492	1576
8000-8000	i	8.3	197	295	492	13.8	98	394	689		24.1	98	5905	29857	7.1	98	591	1911 :
0 000-7000	- 1	8.2		295	492	10.0	98	295	669	:	18.6	98	3543	28774	5.7	96	591	1678 :
7000-8000	1	7.8		295	492 :	11.5	9.8	295	591	:	17.8	9.8	8990	27888	4.9	9.0	689	1969 :
8000-8000	1	4.0	98	295	492 (7.6	96	197	492	ſ	14.6	98	9153	26904	5.7	96	767	1806 :
9000-10000	! 	4.9	98	197	394	6.6	98	298	492	1	10.6	9.0	2165	25821	3.0	98	492	984
10000-11000	1	5.4	98	197	394	6.2	96	197	482		18.6	207	8777	24935	5.3	98	591	1102 :
11000-12000	1	2.7	98	197	295 (4.5	98	197	394	1	8.5	9.0	10367	23882	3.8	9.8	492	1240 1
12000-13000	ł	2.2	98	9.8	295 /	3.0	98	197	394	!	7.8	9.0	22179	22888	3.5	9.0	492	1289
18000-14000	1	1.4	18	140	295 :	2.9	98	197	295	1	9.2	315	20998	21884	2.7	96	492	1043 :
14000-18000	 -	1.4		98	197 (2.3	96	197	296	ı	0.3	94	13944	20703	2.9	9.0	394	886 :
18000-18000	1	0.9	98	10	197 :	1.4	98	98	197	- • -	3.8	96	8774	19898	1.6	98	298	919 :
10000-17000	ı	0.8	98	164	164	0.9	9.0	184	315	:	3.3.	636	18209	18832	2.6	181	525	997
17000-18000	ı	0.5	184	164	164	0.4	164	164	328	:	2.0	984	17225	17717	1.8	184	328	787
18000-19000	1	0.8	164	164	184 :	0.7	164	164	312	:	9.0	3166	16076	16733	4.1	164	328	689
19000-20000	ŧ	0.1	164	164	164 (0.1	184	246	328	:	1.0	3412	15092	18748	1.0	164	410	738

1200Z

FIGURE B-1-3-D



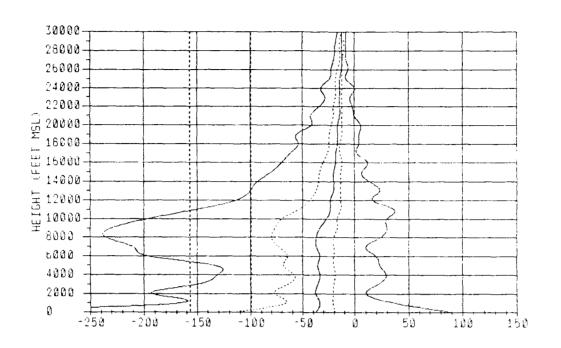
N (N-Units) 0000Z



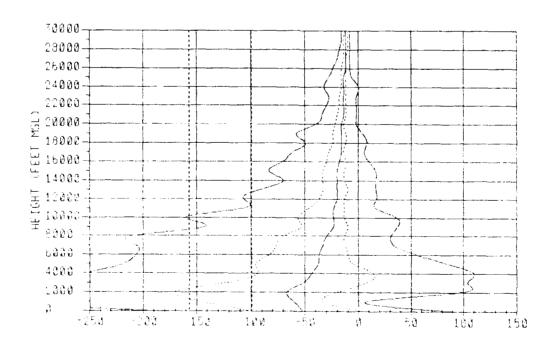
N (N-Units) 1200Z

FIGURE B-1-4-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-1-4-B B-16

MERIDA

DRY-WET TRANSITION

FT MBL	1 1%	N PERCENT	TLES	99×	1 18	DMDH 10%	PERCENT	ILES 50%		11	PERCENT DUCT	OCCURR SRLR	SUB
#FC-500 500-1000 1000-1800 2000-2800 2500-3000 3500-1800 4500-4600 4500-5000	.785.80 1.80.19 2.76.53 1.233.22 1.249.63 1.247.59 1.249.29 1.243.42 1.243.43 1.230.48	311.72 33 308.88 33 302.38 32 288.04 32 288.04 32 283.30 30 278.08 30 272.48 28	.8.00 370.19 19.69 360.58 14.19 384.89 14.19 3847.75 11.28 341.19 3.68 32.78 9.68 728.80 10.86 319.06 19.19 307.00	382.94 273.08 383.87 304.87 344.08 338.83 329.68 323.80	-814.82 i-8139.04 i-141.68 i-179.16 i-214.71 i-185.71 i-185.71 i-160.00 i-1161.68 i-116.00	-80.41 -78.00 -78.16	-38.38 -38.38 -38.38 -37.80 -37.80 -37.80 -38.41 -38.41	-16.66 -18.75 -20.88 -20.88 -20.83 -20.63 -20.63 -18.75 -18.86	24.48 22.81 41.14 8.33 16.66 28.00 20.83 31.28	11 11 11 11 11 11 11	38.1 0.8 1.4 3.3 3.8 4.2 1.7 1.4 0.6	31.2 : 2.0 : 4.2 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 : 6.6 :	2.4 : 2.6 : 2.8 : 2.4 : 3.8 : 4.2 : 4.4 :
E000-8000 8000-7000 7000-8000 8000-8000 8000-10000	(221.80 :214.10 :207.40 :200.80 :194.20	288.77 26 224.40 28 211.30 24	0.38 298.19 19.00 282.69 38.78 270.88 11.10 258.19 23.80 245.00	291.58 278.50 288.00	1-131.26 1-210.00 1-206.64 1-230.14 1-226.32	-66.66 -66.12 -76.68 -79.95 -73.43	-33.33 -37.60 -36.71	-18.76 -20.06 -20.07 -18.82 -18.66	14.66 10.03 23.81	11	2.2 0.4 7.7 10.1 8.0	5.4 : 7.2 ! 11.0 : 14.6 : 13.8 :	3.0 1
10000-11000 1000-12000 12000-12000 12000-14000 14000-16000	1182.20 1176.50 1170.70	188.90 18 180.40 18 174.10 18	79.50 232.50 16.80 220.90 10.40 209.71 12.70 198.90 15.40 190.57	229.70 218.48 208.80	-188.59 -138.72 -119.02 -96.61 -88.58	-88.66 -50.00 -39.97 -36.71 -33.33	-23.30 -20.05 -20.05	-18.41 -16.66 -13.26 -13.26 -13.26	28.42 16.68 20.05	11	7,7 3.8 2.2 1,7 1.0	11.1 8.6 3.6 3.8 2.2	●.o i
150,00-16000 16000-17000 17000-18000 18000-18000	:185.20 :150.34 :145.00	187.80 16 182.30 18 146.70 18	19.50 192.30 12.60 174.99 16.40 167.20 10.90 160.10 16.20 183.10	183.90 178.70 188.20	: -71,43 1 -42.02 ! -81.15 : -58.04 ! -47.96	-30,07 -29.98 -26.01 -24.06 -23,98	-17.98 -17.98 -16.01	-13.26 -13.26 -13.86 -12.03 -13.88	12.38 3.98 8.87	11	0.7 0.4 0.6 1.4 0.2	1.6 1.0 0.7 0.8 0.0	4.8 (4.8 (5.8 (4.2 (2.7 (
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1131.30 1126.90 122.30	132.90 13 128.60 13 124.00 12	0.80 147.00 85.90 141.80 11,45 138.10 18.90 .31.20 12.40 128.10	147.40 141.40 138.80	-40.00 -38.00 -30.00 -28.03 -27.98	-20.00 -18.04 -17.96	-14.06 -13.06 -13.00	-12.03 -12.03 -11.85 -11.85 -11.95	-3.08 -2.03 -2.03	11	0.0 0.0 0.0 0.0	0.3 : 0.2 : 0.0 : 0.0 :	1.4 1.5 2.3
25000-26000 26000-27000 27000-26000 26000-29000 26000-30000	:106.16 :102.62	112.20 11 108.20 11 104.60 10	18.40 121.50 14.50 117.20 15.40 112.30 16.50 108.50 13.00 104.80	118.30	-22.03 -20.00 -16.04 -16.04 -19.01	-16.01 -15.94 -14.06 -13.98 -13.88	-12.03 -12.03 -12.03	-11.95 -11.95 -10.00 -10.00 -10.00	-0.02 -7.97 -7.97	11	0.0 0.0 0.0 0.0	0.0	0.8 0.8 1.1 0.8
3000-31000 31000-32100 32000-33000 33000-34000 34000-35000	92.80 89.40 88.30	94.60 6 91.00 5 87.60 6	99.80 101.20 98.20 97.90 92.70 94.40 19.20 90.70 14.70 87.70	\$8.90 \$5.40 \$1.40	: -16.01 -18.01 -22.03 -22.03 -20.00	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97	11	0.0 0.0 0.0 0.0	0.0 1	0.0 1

0000Z

HOT FT MSL	: 1%	H PERC	ENTILES 50%	DOX	9 9 X	1 1%		DH PERCES	TILES BOX	9 8 X	11	PERCENT DUCT 1	OCCURP SRLR	
8FC-500	:322.50	349.54	370.88	301.79	389.48	(-191.3	4 -108.33	-47.91	22.91	184.71	-++	4.3 i	20.6	11.1
500-1000	:261.07	340.00	363.69	374.19		1-191.4		-54.18	-18.75	47.01	1.1	3.1 :	8.1	10.6
1000-1500	1285.76	330.57	354.88	365.75			8 -118.68	-58.33	-31.25	12.50	11	0.0	13.2	
1500-2000 2000-2500	1289.74	318.98 300.41	343.88 328.75	358.38 345.50			4 -100.75 8 -103.33	-82.50 -88.68	-33,33 -26,69	18.66	11	21.2 23.4	23.3	
2500-3000	1253.60	202.56	314.00	334.75			4 -162.50	-64.58	-10.42	110.29	- 11	18.7	31.7	
3000-3500	:240.08	260.01	302.06	324.50			8 -122.91	-84.18	6.25	100.00	! (10.8 1	20.0 1	
3500-4000	236.60	258.00	294.06	116.00		3-338.6		-80.00	10.42	100.00	- { }	7.6	13.6	
4000-4500 4500-5000	1231.42	249.40 241.40	200.50 200.60	308.17 300.58		:-241.6 :-286.6		-43.75 -41.66	12.80	92.67 125.00	1.1	0.3 :	11.4 :	
5000-6000	220.80	234.30	268.08	290.04	302.17	; -204.1	6 -25 43	-37.50	-0.25	77.08	-++	10.0 :	17.2	14.2
6000-7000	213.60	224.40	284.30	276.69		-208.		-38.41	-10.03	80.00	1.1	7.8 I	13.1	
7000-8000	207.31	218.00	238.90	284.50		1-209.8		-33.33	-13.28	30.21	; ;	• • •	13.6	
8500-9000 8500-10000	.200.82	207.60 200.10	223.50	251.00		1-193.3		-28.68 -25.44	-13.28 -9.90	33.33 42.80	11	8.8 1 3.7 1	8.1	
		200.10			240.00		-03.20	- 2 2			-++			
10000-11000		193.30	204.20	227.50	238.60	-193.4		-23.30	-13.28	28.30	1.1	8.\$ F	7.0 :	11.3
11000-12000		188.40	194.90	216.10		:-106.7		-28.30	-13.28	10.02	1 (2.8 1	3.7	
12000-13000		186.10 173.90	187.40	205.00 198.30		1 -96,7		-20.08 -20.08	-10.03 -13.20	20.08	11	1.4 1	3.1 1	
14000-15000		168.20	173.50	188.00		-76.6		-19.92	-13.20	16.60	- 1 1	1.1	1.8	
	·					•					-++			
15000-19000		192.70	167.30	179.69	189.90 182.20	-83.3		-19.92 -17.96	-13.20 -13.20	10.03	1:	1.3 1	2.4	
17000-18000	150.50	152.20	155 90	185.60	174.20	-54.7		-16.01	-12.03	6.02	11	0.3	0.3	
19000-19000		140,70	150.50	188.70	167.00	-89.3	9 -24.08	-16.01	- 2.08	8.08	1.1	0.	1.3	4.0
19000-20000	:140.40	141.80	144.90	151.90	158.01	-46.0	1 -23.88	-18.01	-13.98	0.00	11	0.0 1	0.6	4.8
20000-21000	135.80	137.30	140.10	145.90	152.32	-40.0	0 -21.95	-10.01	-12.03	-2.03	11	0.0	0.0	
31000-22000	131.30	132.90	135.80	140.45		-11.		-14.06	-11.95	-2.03	::	0.1	0.1	
22000-23000	128.80	128,80	131.20	135.60	140.48	-30.0		-13.00 -13.00	-11.98 -11.98	-2.03 -1.85	11	0.0 :	0.0 1	2.3
24000-25000		119.90	122.30	125.70		: -31.5		-13.00	-11.05	-1.00	11	0.0:	0.3	
											- + +		• • • • • •	
250.0-26000		118.65	119.20	121.20	119.40	-20.0		-13.88 -12.03	-11.95 -11.95	-6.02 -7.87	11	0.0 :	0.0 1	
27000-28000		108 00	110.20	112 80	114 90	-20 0		-12.03	-10.00	-7.97	11	0.0	0.0	
	.100.20	104.40	109.30	108 30	110.10	-17.		-12.03	-10.00	-7.87	1.1	0.0:	0.0	0.8
29000-30000	. 90.50	101.10	102.90	104.70	100.20	-16.0	1 -12.01	-11.05	-10.00	-7.87	1.1	0.0 1	0.0	0.0
35000-31050	92.96	97.80	99.50	101 20	102.40	17.0	8 -12.03	-10.00	-10.00	-7.97	-	0.0	0.0	0.4
31000-33000	69 80	94.50	90.26	97 60	98.60	-17 9		-10.00	-10.00	-7.97	7.7	0.0	0.0	
32000-33000 33000-34000	98.00 82.50	9-3 9-0 9-7:76	92 60 89 20	94 40 86 80	92.36 91.40	22.7		-10.00	-10.00	-7.87 -7.87	11	0.0 !	0.0	
14000-15000	79.00	95.50	88 89	67.76	08 10	17.9		11.00	-8.08	-7.87	4.1	0.0 ;	0.0 1	.

1200Z FIGURE B-1-4-C

MERIDA

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE				TE PROENTIL				SRL! THK PI	rs Ercentii				NORM					SUB		
PT MSL	í	*FRQ	10%	BOX	90%	i	MFRQ	10%	SON	90%	1	MFRQ	THK P	ERCENTI 50%	90%	:	MFRQ	THK P.	ERCENTII 50%	30%
SFC-900	ī	30.1	82	161	358	1	31.2	98	197	388	• - ·	96.1	1662	8063	34975	· • -	12.9	98	259	984
800-1000	- 1	0.0				:	1.1	98	197	2284	ı	2.4	98	3101	34329	:	0.3	98	98	98
1000-1800	- 1	1.2	94	394	486	1	2.9	8.8	295	787	1	2.6	98	3838	34089	١	1.4	98	840	2067
1800-2000	- 1	2.7	187	492		1	4.8	9.0	295	850	:	3.9	98	7263	33322	ŧ	1.1	98	591	3248
3000-5800	- 1	2.3	197	298	591	1	3 . 8	9.8	384	1033	:	8.0	738	7778	32986	1	0.4	689	1280	1476
2800-3000	- 1	2.7	167	394	469	1	4.8	98	295	1063	1	5.9	187	8496	32613	1	2.1	98	689	1280
2000-2800	1	0.6	187	296	492	1	2.3	98	88	631	1	3.8	9.8	2953	16063	t	1.5	96	295	1742
3800-4 000	1	1.2	197	344	787	ł	1.5	98	248	1516	ŧ	3.0	98	1329	31659	í	2.0	9.6	1101	1654
400 0-4800	1	0.8	98	492	492	1	0.8	394	394	984	l	2.9	98	197	9941	٠	1.8	98	841	1033
4000-8000	1	2.8	••	197	449	1	3.5	98	394	1132	ı	7.8	1368	13862	30250	:	4.0	96	683	2284
8000-8000	1	1.4	108	344	861	1	2.9	98	344	778		8.2	315	7874	29945	•	1.3	98	148	1870
8000- 7000	1	B.8	28	394	991	1	6.2	98	295	689	ı	7.2	98	4330	28872	1	2,2	98	394	1171
7000-8000	- 1	5.6	197	295	492	f	8.7	28	295	640	í	11.1	9.8	7579	27790	:	2.2	99	840	2274
\$000-\$000	1	9 .1	197	298	492	ţ	12.6	98	295	492	t	14.9	9.9	26116	27002	ŀ	3,6	98	837	1506
\$000-10000	1	8.6	177	295	384	:	10.8	98	295	492	ì	13.5	364	25181	25919	;	3.5	98	591	1024
10000-11000	1	7.2	96	197	394	1	8.8	98	197	492	• - ·	18.6	689	18537	24935	• • -	5.3	197	469	1280
11000-12000	- 1	3.3	98	197	394	1	8.2	98	298	394	:	10.0	197	19965	23981		3.8	98	591	1083
12000-13000	- 1	2.0		197	248	1	3.2	90	197	443	,	6.2	98	9433	22770		3.3	96	492	1496
13000-14000	- 1	1.7	9.0	140	295	ì	2.6	98	197	394	ŀ	7.2	9.8	5348	21884	í	4.3	98	891	1083
14000-15000	1	1.0	90	98	197	1	1.7	90	197	384	ı	5.9	98	8380	20804	t	3.8	98	492	1083
18000-16000	1	0.7	28	9.6	197	1	1.4	98	98	276	• -	4.6	94	19305	19866	*-	2.7	96	492	1240
10000-17000	- 1	0.4	131	131	164	1	1.0	131	164	230	ì	4.1	236	18209	18701	i	3.0	164	476	722
17000-18000	- 1	0.8	164	164	492	1	0.7	164	328	328	2	3.0	459	17389	17717	ì	2.2	164	328	1640
18000-19000	1	1.5	164	164	164	ŧ	0.7	164	164	328	i	9.9	197	18912	16700	i	3.6	164	328	888
19000-20000	- 1	0.2	164	184	184		0.0	_				2.1	1542	15092	15748		2.1	410	492	902

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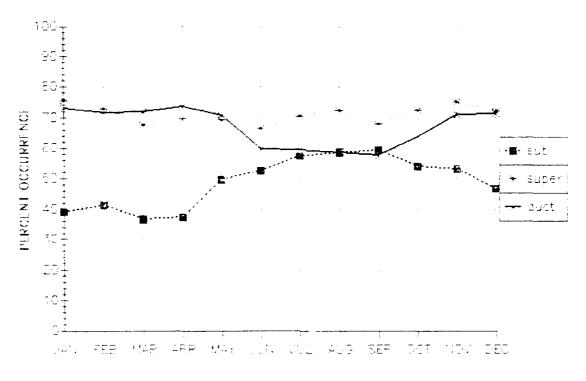
BASE	ı		DUCT	'S RCENTII	LES	1	SRLI THK PI	rs Ercentii	LES	1		NORM	al Ercenti	LES	L	SUM THE PE	RCENTI	LES
PT MEL	i	MFRQ	10%	80%	80%	XFRQ	10%	50%	90x	i	YPRQ	10%	50%	90%	XFRQ	10%	50%	90%
SFC-800	- • -	8.3	62	197	889	20.6	90	295	888	;	93.8	358	1969	12500	33.3	161	358	591
800-1000	1	2.1	96	581	1132	4.0	8-8	591	1398	1	12.2	98	1478	7874	1.5	98	443	1427
1000-1500	1	7.8	197	591	888	8.2	94	591	1378	1	5.3	98	1919	33823	0.8	591	637	1376
1800-2000	- 1	13.4	197	287	935	18.5	98	492	1280	1	7.2	98	1969	33400	1.8	217	787	1555
2000-2500	1	11.3	177	891	888	17.8	98	394	1181	1	13.5	98	2461	32809	8.3	296	886	1929
2800-3000	ŧ	7.7	197	492	787	14.1	98	492	996	1	19.4	98	1969	27481	7.0	295	888	1870
3000-3800	;	8.4	197	394	689		9 6	295	908	:	20.6	98	1021	31825	7.2	394	984	1772
2800-4000	2	4.5	217	492	689	8.3	98	295	787	!	12.9	9.0	1181	31333	8.0	94	998	1309
4000-4900	:	3.4	138	492	787	8.4	9 0	197	820	ŧ	12.7	94	1427	31038	7.2	295	591	1447
4800-8000	t	7.0	197	298	591	10.8	98	295	728	ŧ	21.2	197	3248	30280	7.3	197	669	1949
8000-8000	- ;	6.3	187	298	502	12.1	98	394	787	;	24.2	98	4429	29786	7.3	94	541	1548
8000-7000	1	5.8	9.0	295	492	10.4	9 6	295	689	:	15.5	9.8	4134	26774	. 4.9	98	640	1476
7000-8000	1	7.7	9.0	295	492	1 10.7	9 6	394	689	1	14.6	98	4428	27790	2.5	98	394	1673
8000-9000		4.8		295	4 0 2	8.2	98	295	361	:	14.8	130	7877	26982	5.9	86	689	1476
9000-10000	1	3.1	9.0	295	463	3.8	9.0	197	581	:	8.9	9.0	1578	26743	■.0	94	591	984
10000-11000	- • -	8.4	98	90	295	8.3	94	295	492	ī	18.9	325	13286	24835	5.6	94	394	1309
1000-12000	1	2.4		197	394	1 2.6	9.0	187	394	:	6.9	9.6	23065	23052	4.4	98	492	1280
1000-11000	1	1.1	98	9 6	197	3.0	9.0	197	354	÷	8.3	96	9302	22966	4.2	94	492	1280
18000-14000	- 1	1.1		98	9.8	2.3	9 0	197	394	:	5.4	98	20996	21738	3.0	9.0	394	984
14000-18000	1	1.1	9.0	9.6	197	1.5	9.8	197	364	1	4.9	610	20112	20899	3.6	24	738	1093
8000-18000		1.3	98	98		1 2.3	94	197	295	• -	5.5	787	19029	19797	2.3	98	394	1194
18000-17000	:	1.3	9.0	131	164	0.8	9.0	164	164	;	3.6	607	18373	10931	2.8	139	492	984
17000-18000	:	0.3	184	164	164	0.3	164	164	184	;	3.2	1542	17061	17861	. 2.7	164	658	1149
18000-19000	:	0.6	164	164	164	1.3	164	164	328	2	Ø. 1	1040	18078	18733	3.9	164	328	820
19000-20000		0.0				. 0.4	104	164	184		2.0	1247	15092	18748	1.3	164	656	820

1200Z

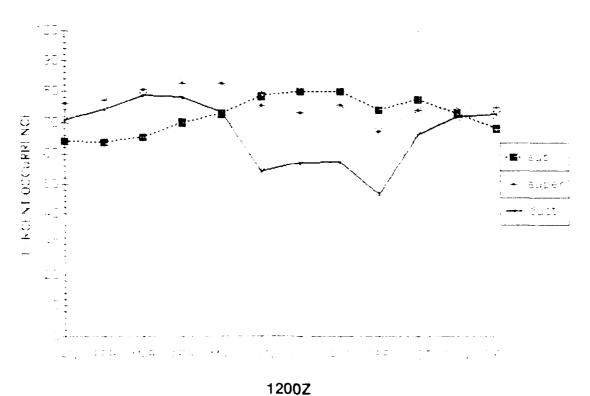
FIGURE B-1-4-D

MERIDA MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



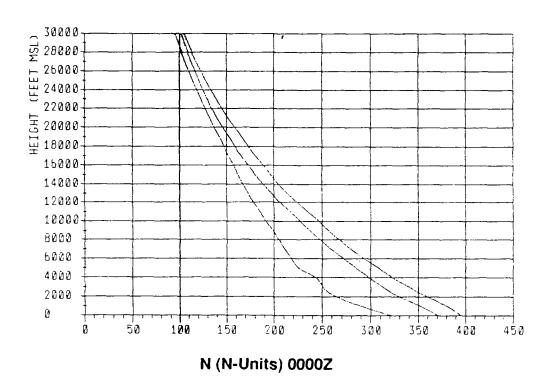




12002

FIGURE B-1-5 B-19

VERACRUZ WET SEASON

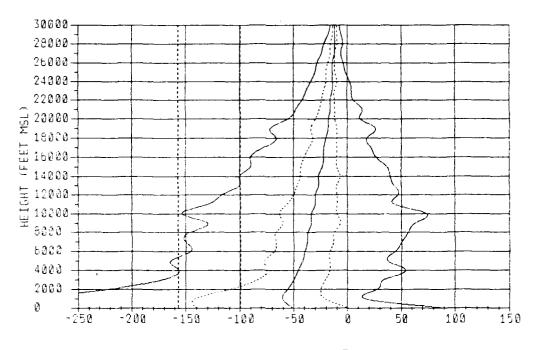


28000 24000 22000 H5 20000 Ů

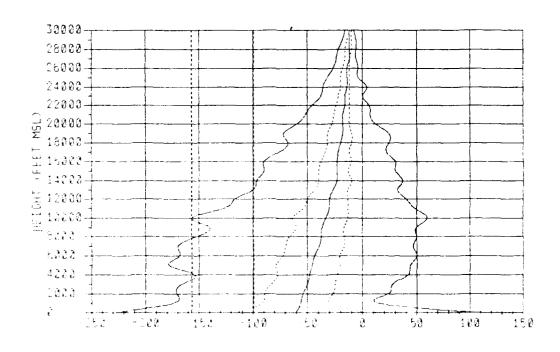
N (N-Units) 1200Z FIGURE B-2-1-A B-20

VERACRUZ WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-2-1-B B-21

VERACRUZ WET SEASON

ngt Ft mel	1 18	N PERCENT!	LES ION SON	98%	1 1%	DNDH 10x	PERCENTILES SON SON	99× 1	PERCENT	OCCURRENCE SRLR SUB
87C-800 300-1000 1800-2000 2000-2800 2000-2800 3800-3800 3800-4800 4800-8000	1340.43 2309.77 1301.84 1279.07 1272.13 1287.42 1281.87 1248.37 1248.48 1241.24	383.69 368 341.75 360 327.78 347 317.28 336 306.72 325 284.80 316 291.28 306 284.69 301	.75 388.88 .89 381.08 .00 373.88 .72 384.00 .06 382.88 .78 341.88 .78 323.28 1.78 323.28	391.91 363.01 373.06 362.76 362.06 341.78 333.06 324.36	1-359.73 1-222.91 1-300.65 1-281.44 1-239.58 1-163.33 1-160.00 1-148.19 1-156.62 1-154.48	-114.68 -150.00 -137.50 -122.81 -100.00 -83.33 -77.08 -72.81	-80.41 18.86 0.00 -82.50 -10.86 -27.08 -80.41 -27.08 -54.16 -25.00 -50.00 -22.91 -47.81 -20.83 -43.75 -18.75		1 8.1 1 13.7 1 12.4 1 7.4 1 4.3 1 2.0 1 1.6 1 1.9	38.0 : 28.8 18.0 : 12.3 : 25.6 : 4.9 : 29.2 : 3.5 : 18.0 : 3.6 : 13.4 : 2 : 28.8 : 5.5 : 18.0 : 3.6 : 13.4 : 2 : 28.8 : 5.5 : 5.5 : 18.0 : 3.6 : 6.0 : 5.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 19.7 : 7.9 : 7.9 : 7.9 : 7.9 : 7.9 : 7.9 : 7.9 : 7.9 : 7.9 :
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1224.62 1217.20 1211.20 1204.47 1187.31	280.00 270 287.80 284 228.30 244	3.00 287.88 3.75 283.69 3.68 271.75 3.70 289.56 3.70 247.80	281.75 279.38 288.68	1-150.00 (-137.50 (-141.66 (-133.33 (-116.66	- 60 . 66 - 68 . 60	-41.88 -19.78 -39.88 -16.88 -37.80 -12.80 -36.89 -10.03 -33.33 -8.64	43.14 I 80.00 I	: 3.0 : 2.4 : 2.6 : 2.6 : 1.3	7.3 : 7.9 : 6.7 : 8.0 : 8.2 : 10.4 : 7.2 : 14.5 : 4.8 : 16.9 :
10000-11000 11000-12000 12000-13000 18000-14000 14000-18000	1163.00 1177.40 1171.70	194.80 214 188.70 208 178.30 188	8.30 237.30 4.70 228.10 8.10 218.90 8.00 208.70 7.30 187.80	232.70 221.70 212.20	[-143.36 [-118.92 [-113.28 [-98.61 [-83.36	-83.28 -83.38 -80.00 -48.81 -43.36	-33.33 -10.03 -30.07 -10.03 -29.88 -10.03 -28.88 -10.03 -28.68 -6.64	43.36 (60.00)	i 4.3 :	7.3 : 17.2 : 4.8 : 13.2 : 4.3 : 13.6 : 3.0 : 12.7 : 13.2 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 : 12.8 :
1800-1400 1600-1700 1700-1800 1800-1900 1800-2000	1186.10 1180.96 1145.30	189.80 172 184.00 184 148.30 185	8,40 189.70 2,00 182.20 4,80 174.00 7,80 186.30 0,70 188.80	194.30 188.70 178.30 170.81 162.80	: -80.00 : -68.04	-38.87 -37.86 -33.86 -32.03 -32.03	-23.30 -9.90 -22.46 -10.00 -21.86 -10.00 -20.00 -6.06 -18.04 -11.86	27.24 18.80 23.98	1 1.0 i i 0.8 i i 0.5 ; 2.1 i i 0.3 ;	2.6 11.1 2.1 10.9 1.2 8.8 1.8 13.2 0.6 7.4
2000-21000 21000-22000 22000-23000 28000-24000 24000-28000	1130.80 1126.10 1121.10	133.40 13: 128.80 13: 124.20 12:	4.80 152.00 9.00 145.80 3.70 140.00 8.80 133.80 3.60 128.10	149.30 143.20 137.30	1 -50.00 1 -47.57 1 -41.62 1 -36.01 1 -33.98	-27.86 -26.01 -23.88 -21.95 -20.00	-17.96 -11.95 -17.96 -11.95 -16.01 -11.95 -18.94 -11.95 -13.98 -10.00	10.00	0.4 0.3 0.1 0.1 0.2	0.4 : 7.9 i 0.1 i 8.0 i 0.2 i 4.0 i 0.1 i 4.3 i 0.4 i 4.4 i
28000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1108.08	112.20 11 108.00 11 104.40 10	9.00 123.00 4.60 118.28 0.60 113.60 6.80 106.80 2.80 106.00	110.60	1 -28.01	-17.88 -18.01 -14.08	-13.98 -11.88 -13.98 -11.98 -12.03 -10.00 -12.03 -10.00 -11.88 -10.00	-3.98 -5.94 -9.02	0.0 1	0.3 1.6 0.0 1.9 0.1 1.2 0.0 0.6 0.0 0.2
\$0000-\$1000 \$1000-\$2000 \$2000-\$5000 \$5000-\$4000 \$4000-\$8000	1 89.30 1 85.70	94.50 9 91.00 9 67.90 8	9.80 101.30 6.10 97.90 2.60 94.30 9.30 90.60 6.70 87.70	99.00 95.30 91.40	1 -16.01 1 -27.96 1 -13.96 1 -20.00	-12.03 -12.03 -11.95	-11.95 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.05 -10.00 -7.97	-8.02 -7.97 -7.97	0.0	0.0 0.3 0.0 1.3 0.0 0.1 0.0 0.2 0.0 0.0

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HOT FT MSL	1 1%	N PERC	ENTILES SON	90X	99%	1	1%	DND 10%	R PERCEN	TILES 90%	99%	11	PERCENT DUCT :	OCCURRE	SUB :
SFC-800	1383.80	369.06	381.00	380.25	399.28	1-280	. 19	-137.50	-58.33	36.76	131.20	11	16.2	28.2 1	33.0
500-1000	1331.53	355.38	370.20	382.89	393.06	1-208	. 28	-104,16	-60.41	-29.18	27.08	()	5.9 ;	11.0 :	4.8
1000-1500	1320.60	346.80	361.19	372.78	383.06			-91.66	-58.33	-29.16	27.00	1:	2.5 1	10.2	3.0 1
1800-2000	1303.96	337.19	352.19	363.36	372.50			-93.75	-56.25	-30.90	8.33	1.1	3.0	10.0 :	2.9
2000-2500	1292.25	328.00	343.20	384.38	362.80				-56.25	-27.08	20.03	1.1	3.2	9.7	4.3
200-3000	1290.24	316.56	333.66	345.06	363.50				-84.16	-27.08	22.91	11	2.6	8.9	8.8
3000-3800	1281.86	309.78	324.88	338.86	343.43			-03,33	-82.08	-27.08	27.08	11	1.8	6.6	3.7 I
\$800-4000 4000-4000	127- 31	293.90	\$17.00 309.25	327.00 319.00	327.58			-77.08 -77.08	-50.00 -50.00	-27.08 -25.00	22.91 27.08	11	1.4	4.8 i	4.3
4800-8000	1286.83	288.38	301.75	312.25	320.06			-77.08	-47.91	-22.81	48.73	11	2.7	7.3 1	0.8
5000-6000	1224.90	272.75	290.06	301.88	310.10	1-172	. 91	-77.08	-48.63	-20.83	41.46	1:	4.5 :	8.8 1	8.2
6000-7000	1316.90	287.19	278.00	288.75	293.88			-70.08	-43.78	-20.83	47.98	3.1	3.6 1	7.1 1	9.5
7000-8000	1210.30	242.60	263.08	273.78	280.04			-89.92	-39.50	-19.92	40.18	1:1	3.4 :	8.8	8.7
8000-8000	1203.60	228.30	250.30	261.06	287.08			~63,41	-37.50	-16.68	80.00	1 1	3.7	8.5 1	9.6
9000-10000	1196.70	215.50	238.20	248.90	284.40	1-123	. 30	-59.89	-36.59	-18.66	46.61	-++	2.3 :	5.I (10.1
10000-11000	1189.80	203.75	227.08	237.95	243.80	1-140	. 10	-60.02	-33.33	-13.28	46.74	: 1	4.3	6.9 :	14.2
11000-12000	1143.40	183.80	218.80	227.00	232.80	1-116		-80.00	-29.95	-13.20	43.38	1.1	1.9	5.2 1	10.8
12000-13000	1177.40	184.90	206.90	218.70	221.93	1-104	. 39	-48.74	-29.95	-13.28	33.33	1.1	1.8 1	4.0 1	10.4
13000-14000		177.40	197.90	207.80	212.80			~43.38	-26.69	-10.03	29.95	: :	O.9 :	3.4 :	10.8 :
14000-15000	1108.10	171.00	169.70	199.00	203.10	90	. 61	~39.97	-28.58	-10.03	36.61	11	1.6 :	5.0 :	10.2
15000-16000		165.10	181.60	191.10	194.80				-23.30	-10.03	30.07	1.4	1.5	2.9	10.9
10000-17000		189.60	174.00	183.70	187.20				-23.98	-11.95	27.98	1.1	1.4 1	2.5	9.9
17000-16000		183.80	186.30	175.40	178.90				-22.03	-11.00	24.02	1.1	Ŭ.35 ∔	1.2 1	8.6
18000-19000		148.20	189.30	187.90	171.40				-20.00	-10.00	30.00	!!	2.2	2.3	11.9
19000-20000	1140.70	143.00	182,20	140.00	163.20	81	. 95	-30.00	-20.00	-11.95	12.03	11	0.3:	0.5	8.4:
20000-21000	1138.09	138.20	145.90	153.30	158.30				-18.04	-12.03	10.14	: :	0.4 :	0.5 1	6.8
21000-22000		133,60	140.00	148.90	149.70				-17.98	-11.95	7.97	1 1	0.3 1	C B :	5.7 1
53000-53000		120.10	134.60	140.90	143.40				-18.01	-11.95	7.97	1.3	0.0	0.5	8.0
28000-24000		124.40	129.10	134.90	137.41				-18.01	-11.85	0.00	1.1	0.1 1	0.1	4.0
24000-28000	1117.83	120.10	124.10	128.90	131.10	-34		-20.00	-14.06	-11.95	3.00	11	0.2 1	0.7 :	4.2 :
25000-26000	1113.52	118.20	119.40	123.70	128.70	: -28	.04	-10.04	-13.98	-11.95	-3.98	1.1	0.0:	0.0 :	1.4
20000-27000		112.30	118.20	118.90	120.70	1 -34			-13.90	-11.90	-3.98	1 ;	0.0 :	0.1 1	1.4 :
27000-28000		100.20	110.90	114.10		: -22			-12.03	-10.70	-0.02	: :	0.0	0.0	1,4
20000-20000		104.60	104.80	109.30		-10			-12.03	-10.00	-6.02	5.1	0.0:	0.1:	1.6
29000-10000	1 \$7.10	101.20	103,10	105.30	108.80	: -1 e	. 01	-13.08	-12.03	-10.00	-7.97	-++	0.0:	0.0:	0.5:
10000-11000		97.90	99.70	101.60	102.70				-11.05	-10.00	-7.97	::	0.0	0.0	0.3
31000-32000		94.80	96.20	98.00	99.00				-10.00	-10.00	-7.97	1 :	0.0 1	0.0	U.3
12000-11000		\$1.10	92.70	94.40	95.40				-10.00	-10.00	-7.97	- 1 1	0.0 1	0.0	0.2
33000~34000		.00	89.30	90.70	91.50				-10.00	-10.00	-7.97	1 1	0.0:	0.0	0.1:
34000-35000	: 00.50	85.80	86.70	87.70	88.30	- 20	. 01	-10.00	-10.00	-7.97	-7.87	: :	0.0:	0.0	0.0

1200Z FIGURE B-2-1-C B-22

WET SEASON

VERACRUZ

THICKNESS STATISTICS

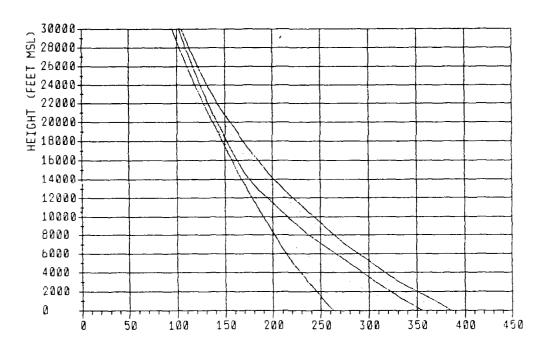
BASE	ŧ		DUCT THE PE	S RCENTIL	ES I		SRLF THK PE	es Ercentii	LES	;		NORM THK P	al Ercenti	LES	:		SUB THK PI	RCENTI	LES 1
FT MSL	1	XFRQ	10%	50%	90%	MFRQ	10%	80%	90%	1	XFRQ	10%	50%	90%	ŧ	XFRQ	10%	50%	90% i
SFC-500	;	25.7	98	253	351 :	38.0	98	253	591	* -	91.8	283	1673	34978	+	28.8	154	381	688
50c -1000	1	5.8	197	394	787	10.8	98	591	1181	1	10.6	9.0	640	18766	1	2.1	9.0	96	906
1000-1500	;	9.7	197	394	689	16.0	98	492	1181		12.2	98	3740	22863	:	1.8	24	295	1280
1500-2000	1	6.1	197	492	886 :	13.2	9.0	394	1161	t	19.3	325	8004	33302	1	2.0	9.0	591	1004
2000-2500	1	2.4	197	394	758 :	8.0	98	492	1161	ι	14.0	98	5216	32809	1	1.4	98	492	2352 !
2500-3000	1	1.7	197	394	659 :	6.4	98	344	984	t	12.7	98	4380	32219	t	2.8	9.0	591	1791 !
3000-3500	;	1.1	98	295	846 1	2.8	98	344	935	;	8.7	98	3789	31796	1	3.0	98	443	1408
3500-4000	1	0.8	108	394	848	2.3	9 0	492	1073	:	5.6	98	1575	18452	:	2.8	98	394	1358 :
4000-4800	;	1.4	98	394	886 :	2.0	98	246	620	:	4.9	98	1878	30742	1	2.5	98	591	846 1
4500-5000	:	1.8	197	295	492	4 . 5	98	295	679	;	8.3	197	5020	30250	ı	4.1	256	492	1791
3000-8000		2.6	98	296	591	8.7	98	295	787	+-	13.7	98	4921	28532	• !	5.1	98	492	1063
6000-7000	1	1.9	98	295	492 1	4.8	98	394	689	i	8.0	9.6	2362	28449	i	6.0	98	591	1260
7000-8000	:	2.4	96	295	391 :	6.3	98	295	891	:	11.2	98	2067	27199		7.4	9.6	492	1378
8000-9000	:	2.0	98	295	512	5.9	98	295	591	i	13.3	88	1969	26412	i	10.1	98	492	1181
9000-10000	:	1.2	98	197	325	4.0	98	295	591	1	11.7	96	1161	25693	1	9.8	98	492	886
10000-11000	• •	4.0	98	197	394 ;	6.6	98	295	492	* -	19.1	98	3081	24738	• !	10.4	98	492	1063
11000-12000	:	2.5	98	98	295	3.8	96	295	394	:	11.9	98	2067	23390	i	9.2	98	492	1280
12000-13000	t	1.8	98	98	296	4.0	98	197	394	;	12.0	96	2461	22504	:	9.0	98	492	1083
13000-14000	1	1.2	98	98	295	3.2	9.8	197	384	i	10.7	98	3101	21588	i	9.1	96	492	1083
14000-15000	;	1.0	98	9.8	298	2.7	98	197	384	:	12.8	98	3347	20506	:	8.4	98	394	787
15000-16000	- • -	0.9	98	98	197	2.4	98	197	305	•-	9.6	98	3199	19521	, - -	8.4	98	394	919 :
16000-17000	į	0.9	141	164	164	1.7	98	164	328	;	9.4	203	3609	18837	;	7.8	164	492	1037
17000-18000	i	0.5	164	164	184	1.2	164	164	328	;	7.3	820	5577	17717	;	5.9	184	492	884
18000-19000	i	2.1	164	164	164	1.8	164	164	328	;	12.9	492	18912	16869	:	11.0	164	492	820
19000-20000		0.3	164	164	164	0.8	164	164	328	:	7.9	1312	15092	15748	:	9.4	164	410	984 1
						٠. ٠			340	•		1318	****	10/40	٠	U. 4		410	

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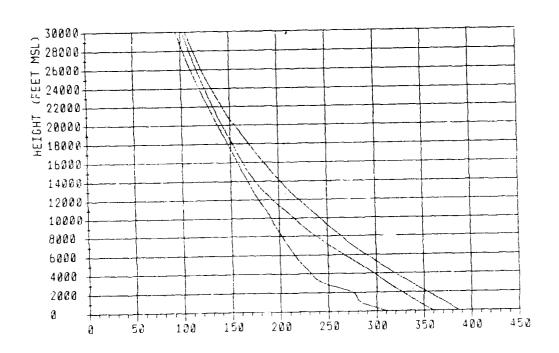
DASE			בשעם	TS Ercentii	TC .		SRL	rs Ercentii	· ve	,		NORM THE P	al Ercenti	1 70	,		SUB	RCENTI	
FT MSL	÷	MFRQ	10%	50%	90%	SFRQ	10%	20%	90%	i	XFRQ	10%	50%	90%	ì	XFRQ	10%	50%	90%
SFC-500	:	18.2	154	351	449	28.2	98	351	787	;	93.0	351	8552	35228	1	33.0	202	361	449
500-1000	;	0.7	98	295	1181	4.0	9.6	98	1142	:	10.9	98	5216	34483	ŧ	2.4	90	394	1083
1000-1500	:	1.0	148	394	787	5.3	9.8	492	984	1	7.6	98	4724	33891	;	1.4	96	285	837
1500-2000	1	2.5	197	394	888	5.8	9.8	591	984	;	8.9	9.6	3839	22618	1	1.7	187	591	1289
2000-2500	;	1.7	128	295	758	4.4	86	482	984	ſ	€.8	98	2658	17798	t	2.4	187	591	1181
2500-3000	:	1.4	197	394	591	9.2	98	394	886	;	7.3	98	4036	22048	t	3.0	98	591	1142
3000-3500		1.4	98	344	600	2.8	9.8	394	994	ŧ	7.4	86	2854	30139	1	2.3	88	394	1476
3500-4000	:	1.1	197	295	787	2.9	98	394	905	1	4.6	98	1870	31274	1	1.8	98	541	1152
4000-4500	•	1.0	197	295	748	3.8	98	492	787	:	4.3	9.6	2116	10256	t	2.4	325	591	1280
4500-5000		2.3	217	295	591	4,7	98	344	886	!	7.4	128	4429	30250	1	4.0	, • •	394	888
5000-8000	:	3.5	98	344	689	6.1	98	295	886	;	14.5	98	3150	29266	1	5.8	98	591	1122
8000-7000	1	2.6	167	295	591	8.1	9 0	295	689	;	8.8	98	2461	28479	;	5.6	96	492	1280
7000-8000	:	2.8	98	295	561	7.1	98	295	640	1	11.6	98	2658	27593	1	8.4	98	492	1182
8000-9000	;	3.4	96	197	404	. 8.9	98	295	591	4	13.1	98	2362	26510	1	6.8	118	492	1093
9000-10000	:	1.8	98	197	394	4.1	177	295	492	;	9.3	96	1181	25427	1	7.3	9.8	394	984
10000-11000	- ;	4.2	98	197	315	6.1	96	197	482	;	15.9	80	3248	24837	1	9.7	9.0	492	1280
11000-12000	:	1.8	98	197	394	4.0	38	197	492	•	11.3	9.6	2854	23498	i	6.9	98	492	984
12000-13000	:	1.7	98	98	246	3.3	98	295	492	:	10.0	90	3543	22671	1	7.1	96	482	1083
13000-14000	:	0.9	98	197	256	2.9	98	197	394	;	9.9	98	2658	21490	1	7.8	98	394	1093
14000-15000	:	1.5	9.8	197	295	2.6	98	197	295	1	10.0	98	1624	20407	t	6.8	9.0	394	984
19000-18000	- ;	1.4	98	197	295	2.4	98	98	295		9.1	197	3678	19679	1	7.9	98	492	984
16000-17000	:	1.4	131	184	164	2.3	138	164	328	:	9.0	164	3937	18701	:	0.1	184	492	984
17000-18000	1	0.3	164	184	164	1.2	164	164	213	;	7.8	344	3117	17717	1	6.6	184	492	820
18000-19000		2.2	164	164	164	2.3	164	194	164	1	11.9	574	15912	16733	:	9.9	194	492	820
19000-20000		0.3	184	164	4	0.5	164	164	328	1	7.0	771	15092	15748	1	4.4	184	492	820

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FIGURE B-2-1-D



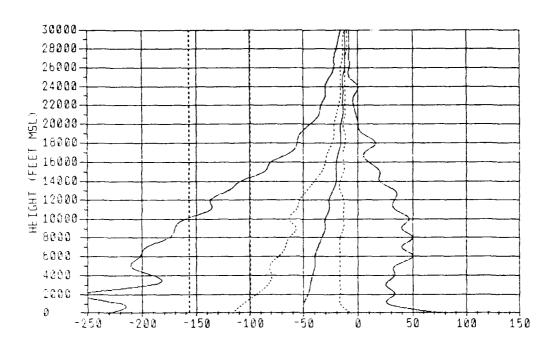
N (N-Units) 0000Z



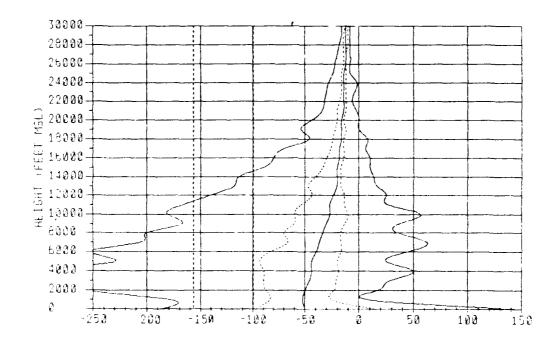
N (N-Units) 1200Z

FIGURE B-2-2-A B-24

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-2-2-B B-25

VERACRUZ

WET-DRY TRANSITION

FT MEL	1. 18.	W PERCENTILES	90%	56%	1 1%	DND:	E PERCENTILES SON SON	88 ×	1: PERCENT	OCCURRENCE E
8PC-800 800-1000 1000-1800 2000-2800 2000-2800 3000-3000 8000-4000 4000-4800	1308.76 1284.42 1269.13 1263.32 1248.62 1244.67 1239.41 1230.71 1230.70	343.69 360.00 354.62 306.13 327.37 347.76 320.06 338.00 311.74 328.20 300.01 320.19 292.06 311.88 263.23 304.69 276.00 286.06 267.38 291.86	381.87 375.88 384.87 384.80 344.87 334.88 328.78 318.08 310.88	384.25 376.19 386.23 388.87 345.86 336.99 327.00 318.89	I-303.28 I-228.16 I-212.50 I-216.29 I-282.44 I-238.10 I-210.41 I-183.45 I-183.45 I-183.45 I-183.45	-106.25 -122.91	-50.25	138.75 32.35 20.78 27.08 24.81 33.33 27.05 33.18 45.63	11 14.1 1 11 6.3 1 11 7.8 1 11 7.8 1 11 9.4 1 11 9.0 1 11 3.6 1 11 2.4 1 11 4.8 1	28.1 : 21.6 : 14.7 : 8.6 : 19.2 : 3.9 : 10.7 : 5.1 : 11.2 : 4.6 : 10.7 : 5.1 : 5.5 : 6.2 : 5.8 : 6.3 : 6.7 : 7.3 :
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1221.38 1214.10 1207.70 1201.00 1184.80	283.10 280.89 237.00 286.00 224.00 285.68 213.10 242.00 204.20 228.60	284.47 281.80 289.78 288.00 248.20	288.75 278.55 285.19	1-204.16 1-183.33 1-188.27 1-180.07 1-188.88	-81.25 -70.05 -76.56 -69.82 -63.28	-38.88 -12.80 -37.80 -13.41 -37.80 -16.68 -33.33 -13.28 -37.33 -8.90	39.58 84.38 56.25 73.30 93.38	11 7.5 1 11 6.0 1 11 6.5 1 11 6.3 1 11 5.1 1	10.9: 9.5: 9.2: 10.7: 11.9: 12.0: 10.7: 13.6: 8.6: 12.3:
10000-11000 11000-12000 12000-15000 15000-14000 14000-15000	1182.20 1178.40 1170.80	195.80 216.80 188.00 207.00 181.00 195.50 174.40 185.35 188.50 176.20	235.60 224.40 213.30 203.80 194.40	231.50 220.40 210.59	i-172.82 i-188.86 i-130.05 i-126.69 i-110.00	-88.28 -86.84 -48.74 -46.61 -43.36	~30.07 -10.03 ~29.95 -13.41 ~26.56 -13.28 ~23.30 -13.26 ~20.05 -16.66	76.69 33.23 39.97 40.10 23.30		11.0 16.1 8.1 10.9 6.5 10.0 7.0 10.3 5.0 7.3
18000-18000 18000-17000 17000-18000 18000-18000	1188.40 1180.80 1144.80	183.00 166.80 187.70 182.40 182.40 186.30 148.70 180.80 141.80 148.00	188.00 177.90 189.20 181.80 184.80	184.80 178.30 188.70	: -89.97 : -82.82 : -83.98 : -88.28 : -65.98	-33.33 -33.98 -30.00 -27.86 -26.01	-20.05 -13.28 -18.04 -13.41 -17.96 -12.03 -16.01 -11.95 -16.01 -13.98	38.71 18.04 22.03 18.67 10.84	11 1.9 11 0.3 11 0.0 11 1.5 11 0.4	2.8 8.2 1.9 7.2 1.3 8.2 1.3 9.7 0.1 3.9
20000-21000 21000-22000 22000-23000 23000-24000 24000-28000	1130.60 1126.00 1120.90	137.20 140.20 132.80 138.50 128.50 131.10 123.80 128.50 119.70 122.10	147,80 141.50 138.10 130.60 128.80	183.80 147.40 141.18 138.30 129.70	1 -40.00 1 -40.00 1 -33.98	-23.98 -21.95 -20.00 -17.98 -17.96	-18.01 -13.98 -14.08 -12.03 -13.98 -11.95 -13.98 -11.95 -13.98 -11.95	3.98 3.99 -1.89 -2.03 1.95		0.0 4.1 0.0 4.1 0.6 2.4 0.0 3.1 0.4 3.7
25000-26000 26000-27000 27000-28000 28000-28000 28000-30000	1107.90	118.80 118.00 112.10 114.10 108.00 110.10 104.40 108.20 101.00 102.80	121.00 116.70 112.40 108.10 104.60	114.90	1 -25.93 1 -22.03 1 -21.95 1 -16.04 1 -16.01	-16.01 -14.06 -14.06 -13.98 -12.03	-13.38 -11.95 -12.03 -11.95 -12.03 -10.00 -12.03 -10.00 -11.95 -10.00	-7.97 -6.02 -5.94 -6.02 -7.87	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 ! 1.0 ! 0.0 ! 1.0 ! 0.2 ! 1.1 ! 0.0 ! 0.8 !
3000-31000 31000-32000 32000-33000 35000-34000 34000-38000	1 88.10 1 88.80 1 82.20	\$7.80 \$8.40 \$4.50 \$8.10 \$1.00 \$2.60 \$7.90 \$8.30 \$5.80 \$8.70	101.00 97.70 94.30 90.70 87.70	98.30 91.40	-18.01 -22.78 -13.98 -20.00 -20.00	-12.03 -12.03 -12.03 -11.98 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -7.87	-7.97 -7.97 -7.97 -7.97 -7.97	:	0.0 1 0.8 1 0.0 1 0.2 1 0.0 1 0.3 1 0.0 1 0.0 1

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NOT FT MAL	1 1 1%	N PERCENTI 10% 5	LES OX BOX	99X	; ! 1%	DNI 10%	H PERCEN	TILES SOX	99X	11	PERCENT DUCT :	OCC SRLk	
SFC-800 500-1000 1000-1800 1800-2000 2000-2000 2000-3000 3000-3500 3800-4000 4000-4800	1285.87 1260.00 1255.82 1252.24 1250.30 1265.81 1248.74 1237.60 1232.20 1228.27	330.08 382 322.80 344 318.80 338 307.80 328 288.88 317 289.84 310 278.18 303	.78 384.00 .80 377.38 .88 388.00 .38 388.75 .25 349.74 .88 340.37 .88 320.89 .19 322.82 .03 314.88 .38 307.88	386.37 376.70 366.68 358.55 349.37 340.15 331.69 323.55	i-227.08 i-193.43 i-184.87 i-189.14 i-191.21 i-228.43 i-210.41 i-208.28 i-218.23		-43.75 -58.33 -59.25 -52.08 -50.00 -50.00 -47.91 -45.83 -43.75	82.50 -27.08 -27.08 -25.00 -22.91 -22.91 -22.91 -20.83 -16.66	228.85 16.35 7.79 8.25 22.46 27.08 27.08 50.00 82.50		8.8 0.3 2.7 3.6 4.5 6.4 4.5 5.4	19.3 ; 10.7 ; 8.3 ; 7.5 ; 6.9 ; 11.8 ; 9.2 ; 6.1 ; 7.5 ; 10.6 ;	2.0 ! 2.4 ! 3.3 ! 4.2 ! 5.7 ! 5.7 ! 8.6 !
5000-6000 6000-7000 7000-8000 8000-8000 9000-10000	1222.50 1218.40 1208.70 1201.73 1188.00	236.00 268 222.20 286 212.30 242	.25 297.19 .56 202.06 .08 270.00 .80 257.56 .80 248.60	289.88 276.78 264.64	1-200.00 1-243.28 1-220.93 1-185.41 1-183.40	-93.75 -83.33 -88.75 -73.30 -83.41	-43.75 -39.50 -37.50 -35.41 -33.33	-18.75 -18.89 -12.50 -13.28 -10.03	41.02 50.00 60.19 43.38 63.28	11	8.0 : 9.8 : 7.7 : 8.6 : 6.3 :	15.3 12.2 11.4 12.2 9.2	9.0
10000-11000 11000-12000 12000-13000 12000-14000 14000-16000	1162.42 1176.70 1170.71	187.80 204 180.80 194 174.30 184	.60 234.80 .80 223.55 .20 213.20 .40 203.50 .70 194.60	230.80 219.80 209.80	-200.00 -163.38 -133.33 -113.38 -106.64	-63.41 -83.28 -80.00 -46.61 -39.97	-29.85 -28.89 -23.30 -23.30 -20.05	-10.03 -13 1. -17.20 -18.00 -13.41	63.26 39.97 13.33 30.06 33.33	/ ; ; ; ;	7.7 : 6.3 : 2.9 : 2.8 : 1.8 :	9.5 ; 8.2 ; 6.3 ; 4.5 ; 4.0 ;	9.9 8.2 7.0
15000-16000 16000-17000 17000-16000 18000-18000 18000-20000	1188.80	187.60 182 182.40 186 148.70 180	.20 168.30 .00 178.20 .10 169.80 .70 182.40 .00 154.80	184.70 176.20 168.70	1 -61.95	-36.89 -32.03 -28.04 -26.01 -25.83	-20.08 -18.04 -17.86 -16.01 -16.01	- 3.41 -17.98 -13.98 -11.95 -13.98	18.88 14.21 12.17 13.88 8.02	11	1.5 : 0.7 : 0.7 : 1.8 :	3.1 : 2.3 : 0.9 : 1.5 : 0.6 :	8.6 : 4.8 : 7.2 : 4.0 :
2000-21000 21000-22000 22000-23000 23000-24000 24000-26000	1131.40 1128.91 1122.00	132.80 136 128.80 131 123.80 128	.20 147.90 .60 141.90 .20 138.40 .60 131.00 .20 128.80	153.78 147.80 141.58 138.00 130.10	1 -40.00 1 -40.00 1 -27.86	-22,03 -20,00 -20,00 -17,96 -17,96	-18.01 -14.06 -13.96 -13.98	-13.98 -12.03 -11.95 -11.95 -11.95	3.85 0.00 -1.96 -2.03 -1.95	11	0.1 0.0 0.3 0.0	0.3 : 0.3 : 0.1 : 0.1 : 0.0 :	3.1 1 2.4 : 2.4 : 2.6 :
28000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1108.86	112.20 114 108.00 110 104.40 108	.10 121.30 .20 116.80 .10 112.50 .20 108.10 .80 104.50	124.00 118.82 115.10 110.20 108.10	-28.98 -22.03 1 -18.04	-18.01 -15.84 -13.86 -13.96 -12.03	-13.88 -12.02 -12.03 -12.03 -11.85	-11.98 -11.98 -10.00 -10.00 -10.00	-5.94 -8.02 -7.97 -7.97 -8.05	11	0.0 :	0.2 : 0.2 : 0.0 : 0.0 :	0.9 ; 0.6 ; 0.6 ;
3000-31000 3100-32000 32000-33000 38000-34000 34000-36000	: 93,10 : 68.70 ! 68.20 ! 82.78 : 60.30	94.60 98 91.10 92 87.80 89	.40 101.02 .10 97.77 .70 94.30 .30 90.70 .80 87.70	102.40 98.90 95.30 91.40 88.25	: -14.08 : -20.00 : -16.01 : -21.98 : -18.01	-12.03 -12.03 -12.03 -11.95 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	f f	0.0 : 0.0 : 0.0 : 0.0 :	0.0 :	0.8 1

1200Z FIGURE B-2-2-C B-26

VERACRUZ

WET-DRY TRANSITION

THICKNESS STATISTICS

BASE			DUCT	s RCENTIL	.		SRLE THK PI	rs Ercentii	***			NORM THE P	al Ercenti			SUB TRK PI	RCENTIL		
FT MSL	í	XFRQ	10%	50%	90%	XFRQ	10%	50%	90%	ì	MFRQ	10%	BOX	90%	XFRQ	10%	50%	90x	i
SFC-500	- • -	14.1	154	253	471 :	28.1	80	295	689	•- 1	93.0	381	3081	34975	21.6	184	301	591	i
500-1000	1	6.5	98	394	689 (9.7	98	394	984	t	11.2	94	3448	13563 :	3.3	94	295	1093	
1000-1500	ŧ	3.3	128	394	75 8	11.3	9.0	591	1280	ţ	11.8	98	3643	18951 :	2.4	98	443	1083	
1800-2000	:	4.7	98	394	689 :	8.3	9.0	394	1083	t	11.8	98	5019	13111 :	3.0	98	492	1555	
2000-2500	1	2.8	256	492	787	4.8	98	492	1102	:	9.8	9.0	3843	18471 /	2.3	98	295	1220	
2500-3000	1	3.0	98	492	778 :	5.7	9.6	443	787	1	10.9	98	3051	32219 :	3.0	98	591	2077	
3000-3500	- 1	2.7	187	492	709 ;	3.3	98	492	1053	1	€.€	98	2165	17123 /	3.0	98	394	1854	
3500-4000	1	1.4	98	295	689 :	3.6	9.8	295	1083	:	5.0	98	1919	31431 :	2.6	98	841	1211	ŧ
4000-4500	1	1.4	90	197	591 :	3.6	9.0	492	787	ŧ	6.3		2054	30939	3.0	98	394	846	ł
4500-5000	. !	4.2	9.0	298	800	4.9	98	295	886	!	9.0	128	2756	30250 1	3.3		394	1339	!
8000-8000	1	8.9	197	344	591 :	8.5	98	295	689	;	17.6	98	3888	29758	7.8	90	889	1280	i
6000-7000	1	4.4	98	298	492 1	7.2	98	394	689	ŧ	12.6	98	2352	28577 1	6.3	99	609	1476	
7000-8000	ŧ	5. i	98	285	492 :	9.8	9.8	394	689	1	13.9	98	2382	27494 1	7.8	98	683	1378	
8000-8000	1	8.4	98	298	394	8.4	98	197	691	ŧ	17.3	94	2412	20010 1	8.7	118	688	1476	
9000-10000	_ t _ + -	3.7	98	197	394	7.8	94	295	492	1	12.0	94	1575	25723 :	8.2	167	640	1181	1
10000-11000	1	8.9	98	197	394	9.7	96	197	472	-	21.6	197	6346	24935	10.4	88	492	1122	i
11000-12000		5.0	98	197	394 :	7.5	98	167	394	1	12.8	9.0	2805	23688 1	8.3	98	840	1181	t
12000-13000	;	3.5	9.0	197	295 :	5.6	98	197	394	:	11.4	98	4282	22671 !	5.7	96	591	1161	1
13000-14000	;	2.8	99	98	295 :	6.5	9.0	197	394	1	12.3	98	3837	21785 I	6.9	98	492	1083	
14000-15000	1	1.9	98	197	295	4.7	9.8	148	394	!	w . 2	96	2494	20604	4.7	138	591	1181	1
18000-16000	-•-	1.9	98	197	197 :	2.5	98	98	295	;-	8.4	98	5676	19797 1	8.9	98	394	1024	;
18000-17000	i	0.1	164	164	164 :	1.6	8.0	164	295	:	7.6	591	18048	18832 1	8.7	230	823	1148	;
17000-18000	:	0.0				1.3	164	184	326	1	6.5	320	6808	17717	8.7	164	492	820	t
18000-19000	1	1.5	164	164	164 :	1.2	164	164	320	1	9.5	951	15912	16569	7.8	164	492	820	1
18000-20000	1	0.4	164	184	164	0.1	194	184	164	:	4.6	1017	14928	18748	1.8	164	656	938	1

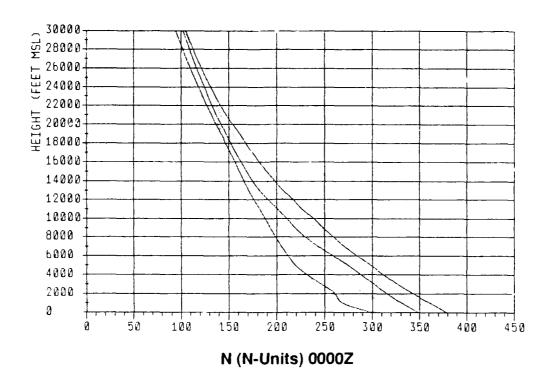
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DASE				s			SRLR					NORM	AL.			£ UB		
	;		THK PI	RCENTIL	ES :		THK PE	RCENTIL	.ES	ŧ		THE P	ercenti	LES	1	THE PI	IRCENTI	LES
FT MSL	:	XFRQ	10%	50%	90%	*FRQ	10%	HOE	90%	ţ	XFRQ	10%	50%	90%	1 XFR	2 10%	50%	90%
SFC-500	1	9.6	180	351	591	19.3	98	351	797	;	92.6	381	4724	34978	43.	8 184	361	440
560-1000	:	1.2	197	295	787 1	4.4	98	394	1093	٠	9.9	305	4134	16047	1 1.	7 98	492	1161
1000-1500	:	1.8	98	492	689 :	4.1	9.8	492	1122	:	8.8	98	3248	21090	1 1.	2 108	246	1240
1500-2000	1	1.0	128	394	856 :	3.9	9.0	394	1043	1	8.4	98	4232	33302	: 2.	187	787	1878
2000-2500	;	2.7	197	394	984 :	5.1	9 6	443	1014	t	8.1	98	2854	32908	: 2.	4 236	492	1427
2500-3000	:	2.9	197	394	886 :	7.1	98	344	994	:	8.4	9.6	2087	6555	1 3.	98	689	1655
3000-3500	:	2.7	167	344	708 1	6.0	96	298	945	:	4.6	9.8	2461	31747	, 2.	1 148	841	1673
3500-4000	1	2.7	187	394	600 1	4.7	98	394	886	1	8.3	187	2313	31431	3.	98	891	1181
4000-4500	:	3.2	197	394	591	4.4	9.0	295	679	!	8.0	96	1083	16595	3.	3 98	591	
4500-5000	1	4.0	177	295	591	7.0	98	432	984	ŀ	10.6	98	2382	30290	4.	9 99	394	1083
9000-6000	;	6.1	128	394	591 :	11.2	98	394	876	• - :	21.1	98	3051	29680		7 98	394	1230
9000-7000	;	8.4	197	394	591 :	10.8	9.8	295	009	:	14.0	98	2412	26506	7.		591	1673
7000-8000	l .	6.3	95	295	551 1	9.9	9.0	298	889	;	18.2	98	1870	27691		2 98	591	1380
8000-9000	;	5.8	98	295	394 :	9.0	9.8	295	591	ţ	16.5	98	2953	26766		7 98	541	1073
9000-10000	1	5.1	98	288	394	7.2	98	197	492	ŀ	13.3	9.6	1969	25772	7.	7 98	492	984
10000-11000	1	8.3	98	197	394	9.1	98	295	492	* -	22.3	98	4084	24837	; 9.	3 98	591	1280
110' -12000	:	4.8	98	197	354 1	7.0	98	197	394	:	12.9	138	4527	23784		30	492	1299
120()-13000	:	2.3	98	197	423 1	5.0	9.6	197	394	:	10.0	90	4560	22750	. 6.	\$ 63	394	1260
13000-14000	1	2.9	98	197	295 ;	4.1	9.8	197	394	:	10.5	96	7447	21707	. 4.	98	492	1083
14000-15000	:	1.6	96	197	295	3.5	9.8	197	394	:	9.2	98	9138	20801	• •.	7 90	402	884
15000 14000	;	1.5	98	90	197	3.1	98	98	197	!	9.7	98	8744	19807	3.	98	459	1060
16000-17000	1	0.7	9.8	131	164 :	2.3	154	184	203	;	8.8	958	18127	18842			492	935
17000-18000	1	0.7	164	164	164 :	0.9	184	164	328	:	4.7	410	11073	17799			492	1148
18000-19000	:	1.5	164	164	164 :	1.3	184	164	164	;	7.6	1280	15912	18869	. 8.		326	804
19000-20000	:	0.1	164	164	164	0.6	164	164	164	1	3.6	689	15092	15584	1 2.		410	869

1200Z

FIGURE B-2-2-D

N PERCENTILES



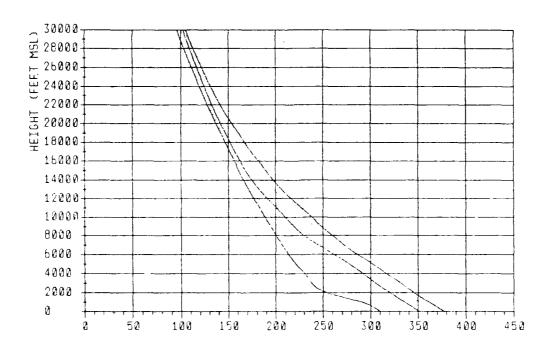
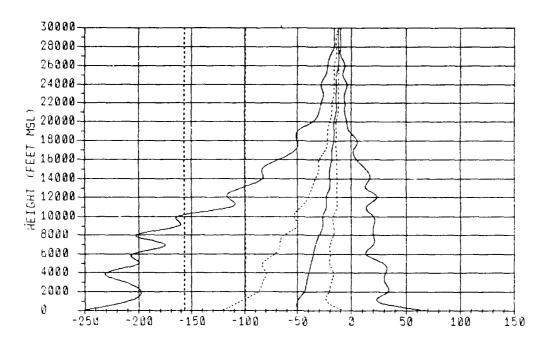


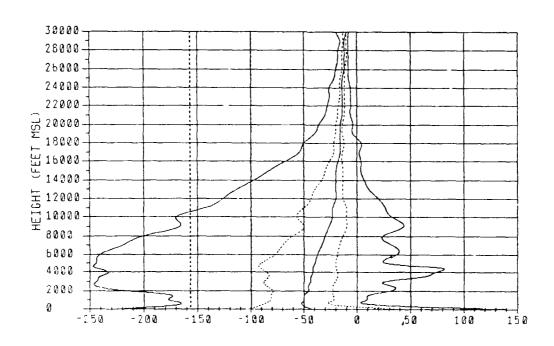
FIGURE B-2-3-A B-28

N (N-Units) 1200Z

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-2-3-B B-29

NOT FT MEL	1 1%	N PERCENTILE		99X	1%	DMDI 10%	PERCENTILE SON 9	g On box	: :	PERCENT	OCCURRE	SUB :
2FC-800 600-1000 1000-1800 2000-2000 2000-2000 3000-3000 3000-3000 4000-4000 4800-8000	1510.57 1287.17 1280.48 1287.20 1288.14 1242.70 1238.20 1433.34 1228.38	334.88 363.0 328.18 348.3 318.76 328.7 508.25 328.6 288.48 320 282.37 312.8 279.06 307.5 270.75 288.5 260.80 281.8	8 362.76 5 382.90 0 344.00 338.19 8 326.76 0 316.76 0 301.08	\$78.00 \$88.60 \$54.28 \$45.76 \$37.60 \$28.78 \$20.58 \$13.78	1-283.68 1-230.02 1-221.80 1-216.68 1-197.81 1-216.62 1-201.62 1-221.80 1-212.80 1-237.60	-114.58	-80.00 -18 -80.00 -20 -47.81 -22 -48.83 -20 -43.75 -18 -41.88 -19 -41.88 -19	.25 112.00 .00 22.91 .03 21.50 .03 33.33 .03 33.33 .00 31.25 .00 29.16 .75 29.41 .75 27.00 .00 33.33		13.8 9.6 5.9 0.2 4.5 4.5 4.5 4.6 4.2 5.4	25,6; 17,3; 16,2; 11,4; 9,0; 6,6; 9,3; 7,6; 6,6; 9,1;	21.1 6.9 7.6 3.8 3.8 9.0 5.3 4.2 4.2
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1218.64 1211.10 1204.70 1188.80 1192.82	238.00 273.7 227.00 268.2 217.80 243.4 208.30 228.3 201.10 218.2	8 278.36 0 283.80 0 281.70	261.56 271.50 260.08	1-198.32 1-196.61 1-176.67 1-168.74	-79.16 -70.63 -86.66 -80.02 -50.00	-36.69 -19 -33.33 -19 -30.07 -18	.92 29.16 .92 20.71 .92 16.66 .96 23.30 .41 23.30	11	6.6 : 6.0 : 5.7 : 6.3 : 4.2 :	11.7 10.1 10.1 10.0	5.8 4.7 4.8 5.9
1000-11000 11000-12000 12000-15000 15000-14000 14000-15000	1180.80 1179.40 1189.80	193.80 208.8 186.80 198.8 180.30 189.4 173.80 180.5 188.10 173.0	0 218.00 0 205.40 0 198.30	225.70 215.70 205.58	!-156.64 :-123.30 !-120.08 :-96.74 !-66.71	-03.38 -46.61 -43.39 -10.71 -33.33	-23.30 -13 -23.30 -13 -20.08 -13	.66 16.86 .41 16.89 .41 26.89 .41 19.92 .41 16.66	: !	5.1 2.6 2.6 2.2 1.6	8.3 5.8 5.1 3.6 2.6	7.3 7.4 6.3 8.9
17000-18000	1168.10 1180.24 1144.60	162.70 166.8 187.80 161.4 182.30 186.8 146.80 180.2 141.80 144.8	0 171.80 0 184.30 0 187.80	180.72 173.10 188.90	1 -83.33 1 -94.08 1 -83.98 1 -82.03 1 -42.03	-29.95 -26.66 -22.03 -22.03 -21.85	-17,86 -13 -18.01 -13 -18.01 -13	.41 6.77 .98 4.00 .98 2.03 .98 3.99 .98 -2.03	1.1	1.2 : 0.8 : 0.1 : 0.3 : 0.1 :	2.0 ! 0.7 ! 0.7 ! 0.5 !	4.1 3.3 3.1 3.7 1.1
	1130.80 1128.00 1120.90	137.40 140.1 133.00 138.8 128.70 131.3 124.10 126.8 120.00 172.4	0 140.00 0 138.10 0 130.30	181.80 148.80 138.70 134.30 128.80	: -33.98 : -28.04 : -28.04 : -24.08 : -28.04	-20.00 -18.04 -17.96 -18.01 -18.01	-13.98 -12 -13.98 -11 -13.98 -11	.98 -0.02 .03 -5.94 .95 -5.94 .95 -4.06 .95 -6.02	: : ! ! ! !	0.2 : 0.0 : 0.0 : 0.1 :	0.1 1 0.0 : 0.2 ! 0.0 !	1.1 : 1.6 : 1.1 : 1.7 : 1.8 :
27000-28000 28000-28000	107.63	118.10 118.3 112.40 114.5 108.20 110.4 104.60 106.8 101.30 103.1	0 118.80 0 112.60 0 108.40	123.80 119.20 114.66 109.80 106.10	: -22.03 : -22.03 : -18.04 : -18.01 : -18.01	-18.01 -14.08 -13.98 -13.98 -12.03	-12.03 -11 -12.03 -10 -11.88 -10	.95 -7.97 .95 -7.97 .00 -10.00 .00 -10.00	11	0.0:	0.0 : 0.0 : 0.0 : 0.0 :	0.8 0.8 0.4 0.3
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	1 92.30 1 88.90 1 88.30 1 82.00 1 79.69	98.00 98.7 84.80 98.4 81.00 92.4 87.80 89.3 85.50 88.4	0 98.00 0 94.50 0 90.80	102.40 89.00 95.40 91.50 88.50	: -19,94 : -18.04 : -20.00 : -20.00 : -13,98	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10 -10.00 -10 -10.00 -10	.00 -7.87 .00 -7.97 .00 -7.97 .00 -7.97	11	0.0 :	0.0 :	0.2 0.4 0.0 0.0

0000Z

RGT FT MSL	1%	N PERCENTILES	90%	991	: 1 %	10# DNDE	PERCENTILES SON BOX	99X	PERCENT	OCCURRENCE SRLR SUB
#PC-800 500-1000 1000-1500 1500-2000 2000-2600 2500-3000 3500-4000 4000-4600	!318.52 !309.55 !299.75 !288.63 !263.96 :264.43 !239.60 :235.90	337.08 357.08 328.00 349.50 321.88 341.18 314.78 333.38 307.58 325.38 288.38 317.26 287.78 301.88 287.68 285.28	371.39 364.50 355.75 347.50 339.69 331.25 7315.17 309.00	378.53 368.88 358.39 349.69 341.38 333.25 325.70 318.08	1-222.33 1-108.86 1-177.08 1-175.18 1-225.00 1-264.16 1-243.75 1-233.39	-09.00 -01.25 -01.25 -79.10 -05.21 -07.50 -03.32 -09.41	-41.88 40.4. -52.08 -22.9 -50.00 -22.9 -45.83 -22.9 -45.83 -22.9 -43.75 -20.81 -43.75 -20.81 -41.86 -19.71	16.66 0.33 10.42 31.25 33.33 20.02 60.41 72.81	11	14.1: 34.3: 8.0: 3.7: 6.7: 2.3: 7.2: 2.7: 5.8: 3.7: 6.6: 4.7: 8.6: 4.7: 8.6: 4.7: 8.6: 4.7: 8.6: 4.7:
4800-8000 8000-8000 9000-7000 7000-8000 8000-8000 9000-10000	:220.70 :213.83 :208.83 :200.00	240.80 278.88 228.80 280.88 217.50 244.80 208.80 229.80 200.80 218.50	301.18 290.89 278.56 284.00 251.40 239.30	301.08 285.08 271.69 259.38	:-289.87 :-289.87 :-248.61 :-219.57 :-200.00	-77.08 -70.08 -80.02	-41.88 -19.80 -39.58 -20.01 -37.80 -18.71 -33.33 -19.60 -30.07 -13.40 -28.69 -10.01	27.06 36.68 33.33 23.91	:: 7.1 : :: 10.8 : :: 9.4 : :: 8.1 : :: 7.8 : :: 4.7 :	11.3 : 6.1 : 15.5 : 5.2 : 12.7 : 5.9 : 10.4 : 5.6 : 9.5 : 7.9 : 7.3 : 8.9 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	181.50 175.90 170.20 164.91	194.10 209.10 106.80 186.80 180.40 189.30 174.00 180.50 168.20 172.80	228.70 218.70 208.70 198.50 187.40	225.30 214.80 205.04	1-170,05 1-143,38 1-126,25 1-113,41 1-96,81	-50.00 -43.36 -39.97	-23.44 -10.01 -23.30 -10.01 -20.05 -13.21 -20.05 -13.4 -20.05 -13.4	26.56 20.05 11.30	:: 6.1 ! :: 4.8 : :: 3.1 : .: 2.8 : :: 1.7 :	8.0 10.4 7.7 7.5 8.8 8.8 8.6 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
18000-18000 18000-17000 17000-18000 18000-18000 18000-20000	:160.00 :165.26 :150.30 :144.80	162.80 166.80 187.80 161.20 182.30 185.40 148.80 180.15 141.80 144.80	179.20 171.30 183.30 187.00 150.80	167.60 180.10 172.19 165.20 157.80	-02.87 -87.57 -54.08 -50.00	-29.95 -26.01 -22.03 -21.95 -20.00	-19,92 -13,4 -17,96 -14,00 -16,01 -13,90 -16,01 -12,01 -18,01 -13,90	3,98 1,95 3,98	:: 1.1: :: 1.0: :: 0.1: :: 0.3: :: 0.1:	2.4 2.8 1.0 7.3 0.4 2.7 0.8 3.3 0.3 1.7
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	:131.08 :120.70 :121.80	137.40 140.16 133.00 135.80 120.80 131.20 124.20 126.76 120.10 122.36	145.07 140.00 135.10 135.20 125.40	134.30		-20.00 -18.04 -17.96 -16.01 -16.01	-15.94 -13.96 -13.98 -12.00 -13.98 -11.99 -13.96 -11.99 -13.98 -11.99	-0.02 -0.02 -0.02	1: 0.1 ! :: 0.0 . :: 0.0 :	0.0 1.2 1 0.2 1.0 1 0.2 5 5 1 0.2 1.4 1 0.1 1.1
28000 - 28000 28000 - 27000 27000 - 28000 28000 - 28000 28000 - 30000	100.00	118.20 118.30 112.50 114.50 108.30 110.40 104.70 108.50 101.30 103.10	120.90 119.70 112.90 108.40 104.80	123 60 119 10 114.70 116.00 106.10	22.03 -20.60 -18.64 -17.98 -16.01	-16.01 -14.06 -13.00 -13.90 -12.03	-13.98 -11.95 -12.03 -10.00 -12.03 -10.00 -11.95 -10.00	-6.05 -6.05 -10.00	0.0 :	0.0 0.2 0.2 0.0 0.3 0.0 0.3 0.0 0.2 0.2 0.0 0.2 0.2 0.2 0.2 0.2 0.2
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	90.08 - 88.78 - 83.04	88.00 88.70 84.80 98.40 91.10 92.80 87.80 89.30 85.56 88.80	101.30 98.00 94.50 96.80 97.90	102.46 99.00 95.50 91.90 98.57	~20 00 3 -18.01 5 -21.98 5 -18.01 ~13.98	-12.03	-10.00 -19.00 -10.00 -16.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.00	-7.97 -7.97 -7.97	0.0 ! !: 0.0 ! !: 0.0 :	0.0 : 0.2 : 0.2 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 :

1200Z FIGURE B-2-3-C B-30

THICKNESS STATISTICS

DASE	•		DUCT	S RCENTIL	EG :		SRLE THK PE	S RCENTIL	. 22	ı		NORM THE P	al Ercenti	LES :		SUB THK PI	RCENTI	LEG
PT MSL	i	XFRQ	10%	80%	90% i	XFRQ	10%	50%	90%	i	XFRQ	10%	50%	90%	MFRQ	10%	80%	90%
SPC-500	;	13.8	98	253	492	25.6	98	295	965	1	93.7	283	4429	38228	21.1	184	295	484
500-1000	ŧ	3.8	197	394	689 :	8.7	26	394	984	:	12.8	98	2953	34483 :	3.5	98	394	787
1000-1500	1	3.4	197	394	888	7.9	98	295	888	1	11.7	9.8	3543	33892 (1.9	167	443	1014
1500-2000	:	2.9	197	394	807 :	5.1	98	295	1004	ŧ	9.2	295	3937	35488 :	2.3	106	591	1835
2000-2000	:	2.2	98	541	797 :	5.0	98	394	787	1	7.0	9.8	3642	32888	2.1	98	591	1191
2500-3000	1	2.9	98	492	709 :	3.6	96	304	866	ı	6.6	98	4628	32416	3.0	9.0	492	1330
3000-3900	;	2.9	197	394	787 :	6.2	9.8	296	965	ŧ	6.6	9.0	6187	31924	2.3	98	837	1844
3500-4000	1	2.6	148	394	669	4.2	98	394	886	1	5.9	492	6496	31530	1.7	138	492	1161
4000-4500		2.2	197	492	699 (3.3	9.8	394	787	ı	6.1	20	4724	31038	2.1	9.0	591	787
4500-5000	- -	3.9	98	295	659 :	6.3	98	295	787	; . • -	10.1	266	10581	30447	3.4	98	492	884
5000-6000	;	8.1	9.0	394	591	8.0	9.9	295	889	1	16.5	394	6595	30083	4.1	98	891	1437
6000-7000	:	5.2	98	295	492 :	8.6	9.6	394	689		10.9	98	6201	28872 1	2.9	98	492	1132 :
7000-8000	1	5.1	98	295	492 :	7.7	98	197	591	:	11.1	394	7283	27947 1	3.3	98	841	1804
8000-9000	:	5.3	197	295	394	9.3	98	197	591	1	12.9	295	12517	27002 1	4.2		591	1467
9000-10000	1	3.7	98	285	304	4.5	98	197	394	;	7.9	98	6020	25821 1	3.5	90	291	1142
10000-11000	- • -	4.6	98	197	295 ;	5.4	98	197	492	• • -	12.7	98	7251	24935	4.4	98	492	1181
11000-12000		2.6	98	197	295	5.1	98	197	384		8.7	98	6956	23981 1	6.3	98	492	984
12000-13000	:	2.6	98	98	295	4.4	98	197	295	1	9.0	98	9515	22671	3.5	98	841	1083
13000-14000	1	1.9	98	98	295	2.9	98	197	295	1	7.7	9.0	20998	21788 1	8.1	98	492	1083
14000-15000	1	1.4	98	96	295 ;	2.5	88	197	335	1	6.3	96	9285	20683	4.0	98	591	1053
15000-16000	-•-	1.0	98	98	197 :	1.9	98	197	299	. • -	6.3	98	19325	19817 !	2.2	98	394	938
18000-17000		0.8	131	184	166	0.7	9.6	184	230		3.6	2083	16209	18632	2.2	164	488	861
17000-18000		0.1	164	164	184	0.7	164	164	328		2.8	820	17061	17881	2.8	164	492	1148
18000-19000		0.3	164	164	164	0.5	164	164	184	i	4.9	3379	16078	16897	2.6	164	328	722
19000-20000		0.1	164	164	164	0.1	164	164	184	i	1.1	3809	15256	15748	1.0	164	328	755

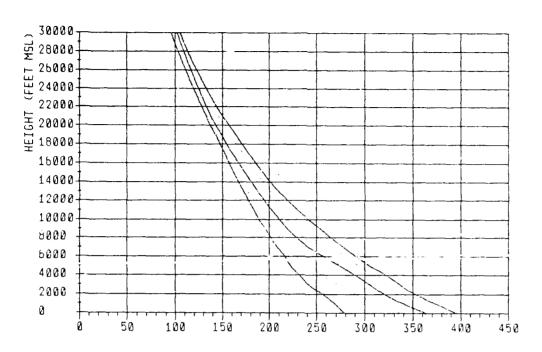
0000Z

			DUCT				SRLR					NORMA				SUB	RCENTIL	PG .
BASE PT MSL	:	MFRQ	THK PE:	RCENTIL 30%	90%	*FRQ	TRK PE	RCENTIL	ES .	i I	xFRQ	THK PI	ERCENTI 50%	90% ;	XFRQ	10%	SOX	90% i
71 man	- • -									•							351	449
SFC-500	:	5.9	56	253	492 1	14.1	98	381	787	1	93.1	492	5019	34975 1	34.3	154 98	492	1378
500-1000	;	0.9	187	295	750 :	3.6	98	492	1004	•	10.2	187	4232	34581 :		20	295	709
1000-1500	1	2.4	187	394	846	3.3	9.8	394	986	,	4.9	726	3780	33892 t	1.0	90	591	1181
1500-2000	1	1.4	98	482	797 1	4.5	8.3	394	888	:	5.3	9.0	3101 1476	32908	2.3	30	482	1083
2000-2500	:	2.9	285	394	787 :	3.0	90	492	1073		4.6	9.6			2.4	136	591	1280
2500-3000	1	4.2	197	394	787 :	8.1	98	492	984	1	8.7	9.0	2559	24722 : 32022	2.7	98	591	1417
3000-3500	;	3.3	197	492	787	4.9	98	394	945	1	6.9	98	2854		3.2	**	492	1122
3500-4000	;	2.7	167	492	787 1	5.1	98	394	905	•	8,7	9.8	3297	31530 :	3.0	116	591	
4000-4500	;	2.8	148	394	689 :	3.0	98	295	787	:	7.5	98	3593 5315	30349	2.1	96	443	1595
4500-5000	:	5.4	128	394	591 :	8.1	96	295	689	: 	11.3	315		30340 :	4.1			
3000-8000	- • -	7.5	138	394	591	11.4	98	295	787		17.9	295	7283	29955	3.6	197	591	1260 1
6000-7000		7.2	98	295	502	10.7	98	295	689	1	13.4	98	4527	28774 1	4.1	98	591	1280
7000-8000		6.5	197	295	492	7.8	9.8	197	381	:	12.6	256	4527	27888 :	3.5	9-8	640	1487
8000-9000	÷	6.0	98	295	472	8.2	98	295	492	;	13.2	98	3642	26805 :	8.7	96	482	1575
9000-10000	i	4.1	98	295	394	6.0	98	295	394	í	9.6	98	5413	25831 /	5.8	9.0	492	1083
	- + -			197	296	7.5	98	197	394	+ -	16.2	256	9416	24935	8.4	9.0	492	1191
10000-11000		5.7 4.7	9 6 9 8	197	295	6.4	96	197	298	i	11.8	98	23163	23951	4.9	9.0	591	1280
11000-12000			98	197	295	4.7	98	197	394	i	9.3	98	12418	22770	4.2	9.8	492	1112 1
12000-13000		2.9	98	197	197 :	5.0	98	197	295	í	e.5	98	20996	21654	3.0	9.8	591	1083 1
13000-14000		2.4	96	88	278	2.7	98	197	295	i	8.5	9.0	20210	20801	2.8	98	295	1132
14000-15000	- • -	i. G			•					<u> </u>								1
15000-16000	1	0.9	98	98	268	2.2	9.6	98	295	:	4.7	98	19226	19817	2.0	98	394	482 1
16000-17000	- 1	1.0	112	184	184 :	1.0	144	164	354	;	3.6	741	18209	18632	2.5	184	492	1035 1
17000-18000	1	0.1	164	164	184	0.4	184	164	164	:	2.2	2329	17389	17881	1.9	104	492	966 !
18000-19000		0.3		164	184	0.8	164	164	328	1	4.4	1903	16076	16733	2.6	164	326	820 !
19000-20000		0.1	184	164	184	0.3	164	164	164	:	1.8	11401	15092	15748 :	1.4	184	410	869 1
									·									

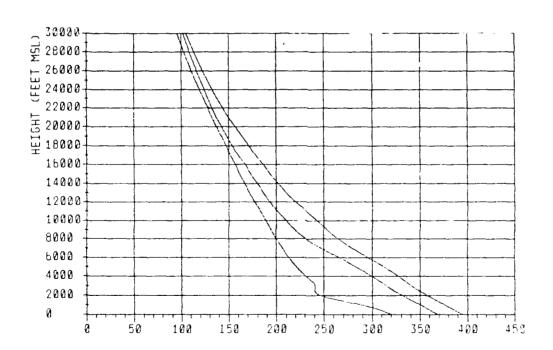
1200Z

FIGURE B-2-3-D

B-31



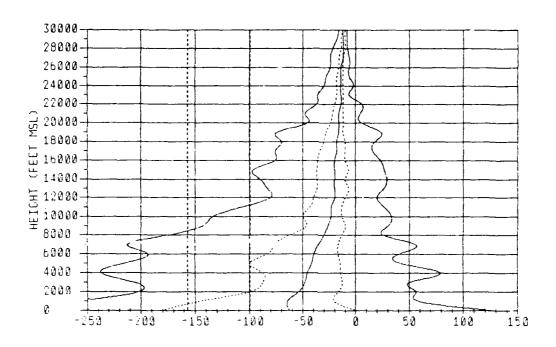
N (N-Units) 0000Z



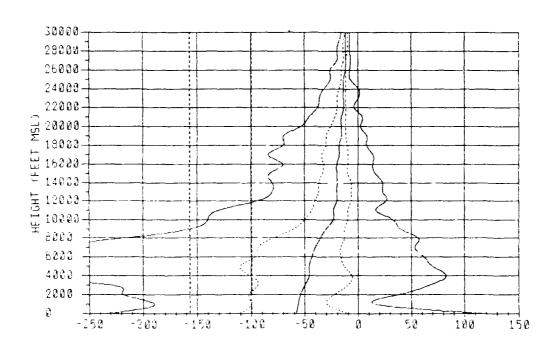
N (N-Units) 1200Z

FIGURE B-2-4-A B-32

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-2-4-B B-33

VERACRUZ

DRY-WET TRANSITION

PT MEL	1 1%	# PERCENTILES	90%	98×	1 18	DWE 10%	H PERCENTILE	SON BOX	11		OCCURR SRLR I	
89C-800 800-1000 1000-1800 2000-2800 2000-2800 2800-8000 8800-8000 4800-8000	1286.81 1278.08 1278.10 (284.17 (280.37 1280.37 1241.18 1238.85 (232.18	346.78 371.18 333.78 356.46 318.68 346.26 306.48 334.68 286.86 328.00 286.36 316.00 276.88 300.18 288.41 301.00 280.48 233.18	377.06 384.82 383.86 343.22 333.76 328.00 317.65 310.19	367.57 375.77 366.26 386.89 346.64 337.78 330.67 324.00	1-477.12 1-414.73 1-280.14 1-238.87 1-202.08 1-201.37 1-188.00 1-228.10 1-237.80 1-238.58	-161.28 -160.41 -181.28	-88.68 -12 -88.78 -20 -80.41 -22 -56.28 -16 -50.00 -12 -80.00 -12 -47.91 -16	3.00 198.63 2.50 56.25 2.03 62.37 2.08 60.50 3.75 50.00 2.50 58.33 1.50 58.42 4.58 50.00 3.66 64.67	1 11	20.0 : 17.7 : 8.1 : 4.7 : 8.1 : 4.1 : 4.7 : 4.2 :	32.6 : 27.4 : 28.9 : 1 : 24.1 : 1 : 10.3 : 1 : 7.2 : 6.3 : 1 : 7.4 : 1 : 14.2 : 1	10.2 6.7 6.7 6.9 6.5 6.5 7.6
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1222.21 1214.88 1207.80 1200.78 1184.30	259.80 272.38 227.80 288.40 218.10 240.70 209.70 227.48 201.80 217.20	278.00	288.38 277.28 284.28	I-216.66 I-186.78 I-213.47 I-173.30 I-130.07	-98.81 -83.33 -78.68 -80.02 -46.74	-39.08 -16 -30.41 -16 -29.98 -13	3.08 45.93 3.66 42.23 3.66 56.64 3.28 28.89 3.03 38.59	11	7.3	17.0 : 12.1 : 10.0 : 7.8 : 4.6 :	7.7 6.0 7.9 6.8
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1162.10 1176.81 1171.20	194.70 208.00 188.00 200.40 181.80 192.70 176.32 186.70 169.30 179.00	218.80 208.70 188.70	227.83 216.88 207.80	-139.64 -100.00 -76.69 -63.33 -86.71	-80.00 -43.38 -38.97 -36.69 -38.69	-23.30 -13 -20.08 -10 -20.08 -6	30.07 3.28 20.08 3.03 20.08 3.64 28.68 3.80 29.98	1 11	1.1 1.1 0.6	4.5 3.0 1.4 2.8 2.4	8.6 1 8.8 1 10.0 {
18000-18000 18000-17000 17000-18000 18000-18000	1188.80	183.60 172.00 188.30 188.70 182.90 168.70 147.20 182.40 142.20 146.20	183.80 177.30 183.80 162.80 156.00	163.57 175.64 186.51	1 -93.38 1 -76.01 2 -70.88 1 -81.98 1 -52.03	-38.71 -34.08 -32.03 -30.00 -28.01	-18.04 -10 -17.96 -10 -18.01 -10	1.77 20.05 0.00 25.00 0.00 16.01 0.00 23.06	11	0.2	3.3 : 2.1 : 1.2 : 2.7 : 0.0 :	9.4 1 6.4 1 9.6 1 4.7 1
20000-21000 21000-22000 22000-25000 25000-24000 24000-25000	1181.80 1128.95 1122.07	137.80 141.10 133.20 138.30 128.50 131.80 124.20 127.30 120.10 122.70	143.60	148.38 142.10 138.80	1 -45.97 1 -44.03 2 -35.31 1 -33.98 1 -32.02	-23.99 -22.03 -20.00 -10.04 -18.04	-15.94 -12 -13.98 -11 -13.98 -11	1.03 6.02 1.03 6.02 1.95 2.03 1.95 -4.04	11	0.2 0.0	0.5 : 0.2 : 0.0 : 0.3 :	3.1 / 1.3 / 2.7 /
28000-28000 28000-27000 27000-28000 28000-28000 28000-50000	1109.00 1104.80 1100.87	118.20 118.80 112.40 114.70 108.20 110.60 104.60 108.80 101.30 103.10	122.20 117.70 113.20 108.70 104.90	120.10 115.40 110.42	-28.93 -23.90 -22.03 -18.04 -16.01	-16.01 -16.01 -14.06 -13.98	-12.03 -11 -12.03 -10 -12.03 -10	.95 -5.94 .95 -6.02 .00 -7.97 .00 -8.05	11	0.0 l 0.0 l 0.0 l 0.0 l	0.0 1	0.8 1 0.3 1 0.5 1
\$0000-\$1000 \$1000-\$2000 \$2000-\$5000 \$5000-\$4000 \$4700-\$6000	1 88.40	\$6.00 \$8.70 \$4.70 \$6.30 \$1.10 \$2.80 \$7.90 \$9.40 \$5.70 \$6.80	101.40 98.00 94.50 90.80 87.80		1 -22.03	-12.03 -12.03 -12.03 -12.03 -11.98	-10.00 -10 -10.00 -10 -10.00 -10	0.00 -7.97 0.00 -7.97 0.00 -7.97 0.00 -7.97	11	0.0 I 0.0 I 0.0 I 0.0 I	0.0 1	0.3 1

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HOT PT MBL	1 1%	N PERC	ENTILES SON	90%	••×	1%	DW1	H PERCEN	TILES SOX	99X	11	PERCENT DUCT !	OCCURR SRLR :	ENCE :
SPC-800 800-1000	1828.07	383.00 342.72	374.38 364.69	388.06 378.76	388.75	1-285.28	-102.04	-82.08 -80.41	40.44	191.14 16.66	11	12.2 5.2	24.1 12.0	38,2 1
1000-1500 1500-2000	1287.24	333.80 323.19	365.25 345.75	389.37		1-178.87	-97.91	-58.33 -58.25	-29.95 -29.16	16.66 22.91	11	3.9 4.0	11.7 :	2.2 3.6
2000-2500	1246.28	313.25	330.10	380.38		1-209.79		-88.28	-27.08	37.80		5.8 t	12.2	8.2
2800-3000	1245.05	302.69	326.25	340.72		1-233.33		-82.08	-18.75	43.64	11	6.2	11.3	6.7
3000-3500 3500-4000	1239.66	202.20	317.69	331.00		1-231.25	-95.43	-80.00 -47.91	-12.80 -10.42	93.21 70.33	11	5.6 4.3	9.4	9.6
4000-4800	1231.66	274.30	302.50	\$17.50		1-307.31	-95.83	-45.83	-8.25	46.66	11	7.3	9.2	9.6
4800-8000	1226.85	265.69	294.56	310.76		1-341.56	-106.25	-45.83	-0.33	99.27	11	12.1	15.0	13.2
8000-8000	1219.60	245.80	281.83	299.56		1-277.08	-106.33	-43.75	-13.41	72.69	11	13.4	18.9	12.1
6000-7000 7000-6000	1211.90	227.80 217.80	264.06 246.00	283.78		1-240.08	-95.83 -93.30	-43.36 -39.58	-10.00 -10.00	54.16 53.38	11	12.3 /	15.6	8.5
8000-8000	1198.91	208.90	229.60	254.50		:-210.34	-78.69	-33.33	-13,28	56.64	ii	8.2	14.6	8.4
	1192.80	200.60	217.20	241.10	251.00	:-138.59	-56.64	-29.95	-13.28	48.61	11	3.6 :	8.6	7.6 :
10000-11000		193.00	208.10	229.20		1-143.34	-80.00	-23.30	-10.03	20.05	11	3,9 1	4.8	7.7
	1101.31	187 00	198.00	217.00		1-126.32	-43.36	-20.05	-9.90 -8.64	19.92	11	3.3 (4.6 :	7.2 :
12000-15000		180.70	191.30	207.70		1 -89.87	-39.97 -38.71	-20.05 -20.08	-6.84	23.30	11	1.0	1.7	10.5
14000-18000		166.60	178.00	191.40		-70.00	-38.59	-19.92	-8.77	23.30	; ;	1.3 1	1.4	8.1
16000-16000		163.10	171.20	184.50	101.20	1 -79.98	-33.33	-19.92	-10.03	13.20	1	0.3 1	2.3	6.6 1
	1188.30	187.80	188.30	177.70	184.00	-77.98	-32.03 -32.03	-17.96 -17.96	-10.00 -10.00	14.08 10.00	11	0.9 :	1.4	5.3 : 5.5 :
17000-18000		182.80	181.70	163.33		-81.32	-28.04	-10.01	-10.00	10.00	11	1.7	1.7	7.4
19000-20000		142.00	145.60	155.90	161.00	1 -56.01	-28.04	-16.01	-12.03	1.95	- + +	0.6	0.4 :	3.2 :
20000-21000		137.40	140.60	149.10		1 -61.98	-23.98	-16.01	-12.03	2.03	1.1	0.3 :	9.7	3.1
21000-22000		132.00	136.60	143.00		: -43.98	-22.03 -20.00	-14.06 -13.98	-12.03 -11.95	8.94 -2.03	11	0.0 1	0.3 (3.4 1
22000-23000 23000 24000		128.70	131.40	131.70		-33.98	-18.04	-13.98	-11.95	0.00	11	0.0	0.1	3.1
24000-25000		110.00	125 30	126.40		-30.00	-17.96	-13.98	-11.99	-3.98	ii	0.0	0.3	2.5
28000-26000		118.00	118.20	121.80	128.12		-16.01	-13:08	-11.95	-7.97	1.1	0.0	0.0	0.8
28000-27000	1108.38	112.20	114.30	117.80		: -22.0%	-16.51 -14.08	12.03 -12.03	-11.98 -10.60	-7.97 -7.97	11	0.0	0.0 1	0.3 !
27000-28000 28000-28000	1 90.68	104.50	110.30	112.90		1 -10.00	-11.06	-11.95	-10.00	-7.97	; ;	0.0	0.0 (0.7
29000-30000	98.20	101.20	102.90	104.70	100.40		-13.98	-11.98	-10.00	-7.87	1.1	0.0	0.0 1	1.2
30000-31000	1 92.70	\$7.90	99.60	101.20		-16.01		-10.00	-10.00	-7.97	11	0.0	0.0 :	0.1
\$1000-\$2000	1 88.30	94.70	98.30	97.90		1 -18.04	-12.03	-10.00	-10.00	-7.97	()	0.0 1	0.0	0.3
\$2000-\$3000 \$3000-\$4000	1 62.80	91.10 87.90	92.70 89.30	94.40		-17.99	-12.03 -12.03	-10.00 -10.00	-10.00 -10.00	-7.87 -7.87	11	0.0 :	0.0	0.0 1
34000-38000		85 70	96.80	87.80		20.00	- 10.00	-10.05	8.00	~		၁.ó ·	0.0	0.0 1

1200Z FIGURE B-2-4-C B-34

VERACRUZ

DRY-WET TRANSITION

THICKNESS STATISTICS

DASE	,		DUCT:	S RCENTIL	TR :		SRLE THK PI	rs Ercentii	.Eg	ı		NORM THE P	al Ercenti	LES :		SUB THE PE	RCENTII	LES
FT MSL	1	MFRQ	10%	50%	90x	XFRQ	10%	80%	90%	i	XFRQ	10%	80%	90%	XFRQ	10%	80%	90%
8FC-800	;	30.8	98	253	775 ;	32.6	98	295	1181	1	92.8	98	1237	34970 ;	36.0	118	263	591
500-1000	1	12.5	197	492	886 1	18.3	98	492	1211	1	18.3	96	2983	19384	2.2	98	295	728
1000-1800	t	7.2	295	492	886 :	13.9	9.8	394	1260	:	18.5	9.0	3937	33794	4.2	384	• • • •	1611
1500-2000	1	3.3	197	492	886	9.1	98	295	1083	ı	18.6	9.0	3347	33302	2.7	288	492	1848
2000-2500		1.6	108	443	591	5.9	98	344	797	:	10.8		2884	32986 1	3.4	148	840	1280
2500-3000	1	2.0	278	591	846 :	4.5	98 98	394	1339	:	11.3	98	3937	32218 : 8366 :	4.1	276	984 492	2264
3000-3500	1	3.0	98	492	886 1	4.1	98	492	1083	:	8.8 5.8	94	1132 4380	31840	3.0 3.6	98	886	1702 1370
3500-4000		2.7	197 148	492 443	807 738	4.5	98	492 295	807	1	6.6	98	1132	30890	2.3	197	440	1048
4000-4500 4500-5000		2.2 4.4	197	394	787	11.5	98	394	916	:	14.5	453	6791	30388	8.0	100	881	2020
4500-5000			1#/	307	707 1			384		١.	14.5							
5000-8000	1	5.6	98	394	810	9.7	98	492	787	ī	19.8	98	0397	29798	5.2	9.8	443	1370
6000-7000	1	3.5	139	394	591 1	8.5	98	394	689		13.2	98	8594	28872	4.8	90	591	1088
7000-8000	1	5.8	98	394	891 :	7.6	9.8	384	649	ţ	12.0	98	3986	27428 1	₩.6	94	443	1055
8000-8000	ı	4.8	90	295	482 1	5.8	90	295	610	1	13.3	98	4281	27002 1	5.9	90	691	1576
9000-10000	:	1.7	98	295	472	3.3	98	197	630	1	7.6	98	2758	25624	5.3	98	492	1033
10000-11000	- • -	3.2	96	197	492	4.1	98	197	492	+-	13.3	295	6365	24935	4.0	98	591	1280
11000-12000	1	0.8	9.8	296	394 1	2.4	98	295	423	•	8.2	9.0	8020	23784	4.7	9.0	409	1310
12000-13000		0.9	9.8	9.6	295	1.4	98	197	295	1	9.7	9.8	3691	22819	6.1		787	1476
13000-14000	:	0.8	98	98	197 1	2.4	98	197	394	1	8.0	90	4691	21687 (6.4	98	787	1378
14000-15000	:	1.4	98	98	197 :	2.1	98	197	344	;	8.9	98	5413	20703	4.7	96	394	1366
15000-16000	- • -	1.1	98	98	197 :	3.2	98	197	295	-	8.9	98	3708	19630	8.9	98	361	1276
18000-17000	1	0.2	164	164	164	1.8	164	230	328	1	7.7	1640	18209	18832 :	8.7	184	656	984
17000-16000	1	0.2	164	184	164	1.2	164	164	184	;	4.9	787	17225	17881	3.9	164	874	1194
18000-19000	1	0.5	164	184	184 (2.7	164	164	328	;	10.0	1280	15912	18733 :	7.4	164	492	984
19000-20000	;	0.0			:	0.0				:	4.0	1640	15092	18748 1	3.3	197	492	820

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BASE	:		DUCT	S RCENTIL	T S	•	SRLE	e RCENTII	# Q	,		NORM	ial Ercenti			SUB	RCENTI	
FT MSL	;	MFRQ	10%	50%	90%	MFRQ	10%	50%	90x	i	*FRQ	10%	50%	90%	MFRQ	10%	SON	90%
SFC-500	:	12.2	115	253	492	24.1	98	253	1083	• -	95.1	345	4330	34975 1	35.2	154	283	381
800-1000	:	1.6	98	492	591	4.8	9.0	295	1142	ŧ	8.8	98	3150	13130	0.7	394	787	1083
1000-1500	!	2.4	197	394	679	. 5.6	96	591	1181	:	7.0	187	2904	33991	1.2	492	787	1280
1000-2000	:	2.9	98	492	787	8.4	98	541	1280	;	5.1	98	1181	11772 :	2.2	98	609	1550
2000-2500	:	3.9	98	394	719	4.9	98	591	1181	:	8.5	98	2067	23032 :	3.0	98	730	1319
2500-3000	;	3.9	167	492	817	6.2	98	591	1132	i	0.3	9.0	2100	12539 :	3.6	187	669	1398
3000-3500	1	3.1	118	394	768	5.6	9.8	384	1093	ı	9.4	98	1476	12343 :	4.6	88	581	1478
3500-4000	;	2.4	9.0	394	620	. 48	98	591	886	1	9.1	9.8	1280	16100 I	4.8	148	886	1280
4000-4500	;	9.5	278	492	989	9.1	9.0	394	889	1	8.4	98	691	30801	4.0	98	689	1083
4500-5000	. ! - • -	8.0	157	298	689	10.9	98	394	1083	:	18.0	9.0	5216	30349	6.4	197	591	1378
5000-6000	:	9.1	197	492	787	12.4	98	394	400	1	21.2	98	4429	29561 :	8.6	98	689	1280
6000-7000		8.2	98	394	689	12.6	99	295	787	:	18.6	98	3248	28774 1	5.9	98	492	1427
7000-8000	:	8.8	197	394	591	12.4	9.8	295	689	1	18.2	98	6595	27888 1	6.3	197	689	1684
8000-9000	:	e .1	9 8	295	492	: 11.0	9 8	295	891	:	17.1	98	7086	26904 :	4.8	157	689	1772
9000-10000	- -	2.3	9.0	248	423	4.2	9.8	197	463	1	10.5	9.0	3445	25752 1	4 . 6	98	492	1089
10000-11000	;	3.9	98	197	394	4.8	98	197	423	1	11.4	98	5544	24935	4.2	98	609	1486
11000-12000	- 1	3.0	98	197	394	3.5	98	148	394	:	9.0	98	4855	23632	5.8	9.0	443	1370
12000-13000	•	1.3	96	197	295	2.2	98	98	296	1	7.9	90	6791	22770 1	8.2	9.8	689	1280
13000-14000		1.0	98	98	295	1.7	98	197	453	;	8.4	98	8562	21785 1	0.1	9.6	841	1378
14000-15000	1	1.3	9.8	88	295	1.4	98	9.8	285	1	8.9	96	4183	20781	4.3	9.0	394	1003
15000-16000		0.3	98	148	197	2.0	9 à	197	335	• •	7.2	98	3811	19718 :	4.9	98	295	1043
16000-17000	:	0.9	98	164	295	1.3	131	326	328	1	5.8	936	18209	19839	3.8	164	656	1181
17000-18000	:	1.3	184	194	164	1 1 8	164	184	164	1	5.9	841	17228	17666	3.3	164	402	1140
18000-19000	:	1.7	164	.64	164	1.7	164	164	279	:	10.0	1101	16912	16733	0.2	164	492	820
19000-20000	:	0.6	184	164	164	0.4	184	164	328		2.8	820	14928	18748	2.0	184	482	620

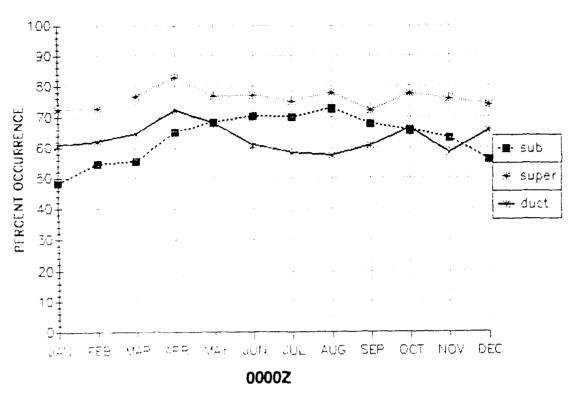
1200Z

FIGURE B-2-4-D

B-35

VERACRUZ MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



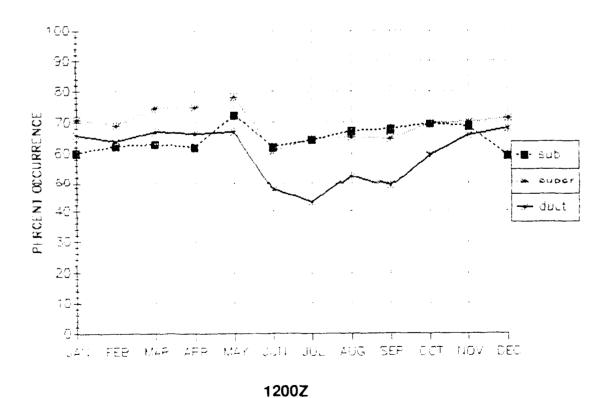
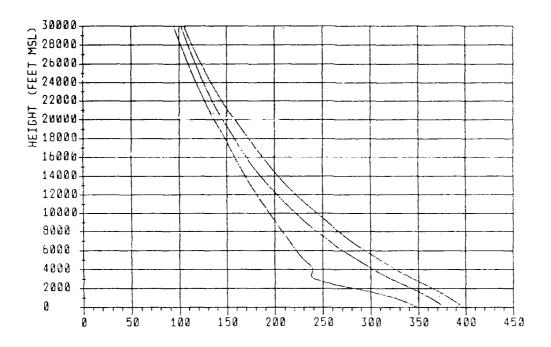
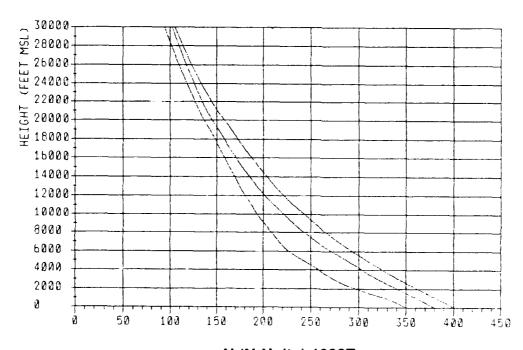


FIGURE B-2-5 B-36

OWEN ROBERTS WET SEASON



N (N-Units) 0000Z

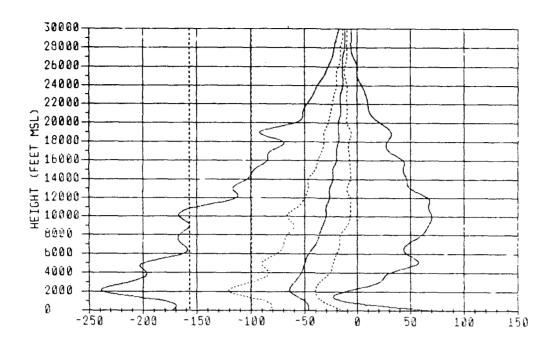


N (N-Units) 1200Z

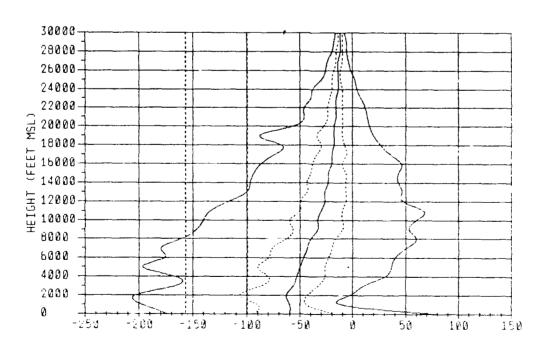
FIGURE B-3-1-A B-37

OWEN ROBERTS WET SEASON

GRADIENT PERCENTILES



DNDH (N-Unit/KM) 0000Z



DNDH (N-Unit/KM) 1200Z

FIGURE B-3-1-B B-38

PERCENT OCCURRENCE DUCT | SPLR | SU DNDH PERCENTILES W PERCENTILES 80% 88% 98X :369.00 :343.99 :334.47 :322.07 :310.06 :262.92 :272.73 :260.74 :249.07 :239.65 371,25 362,69 354,67 745,06 333,69 320,64 308,87 296,56 286,75 276,75 381.50 384.38 378.75 368.00 380.19 349.00 337.18 327.68 318.82 310.75 1-216.88 -104.16 1-120.83 -70.63 1-186.25 -77.08 1-200.16 -97.91 1-260.00 -120.83 1-216.89 -118.66 1-214.58 -104.16 1-214.58 -89.58 1-206.41 -83.33 1-169.58 -83.33 \$70-000 800-1000 1000-1800 399.88 392.75 384.08 378.00 387.00 386.24 382.18 374.60 337.08 182.80 -10.42 -12.80 -18.86 -18.78 -4.17 7.8 17.2 2.8 8.3 12.2 18.8 20.0 -43.78 -80.00 0.7 0.7 0.7 0.8 1.8 2.4 2.8 2.0 4.6 8.6 7.5 4.8 4.0 3.9 307.08 359.00 349.19 336.75 -\$1.28 -\$3.33 -\$7.80 -80.00 -82.08 1800-2000 2000-2800 2800-8000 -80.41 -88.88 -3#.38 -37.60 -33.33 3000-3800 3800-4000 4000-4800 328.00 315.19 308.50 296.38 14.60 14.88 23.00 348.06 338.80 -82.50 -58.33 13.0 327.19 319.06 -64.16 -62.08 -27.08 8.0 10.3 4500-5000 -28.00 45.21 282.25 245.80 253.00 222.20 212.80 7.1 4.7 5.6 6.4 4.8 5000-8000 6000-7000 7000-8000 1229.94 :221.40 :213.61 :205.70 265.38 269.78 265.30 299.50 284.19 270.75 \$09.06 292.78 279.00 (-193.75 !-164.59 !-166.53 !-168.66 -87.80 -76.86 -72.91 -50.00 -43.78 -39.97 -22.91 -20.83 -18.78 13.0 10.3 10.7 8.4 10.0 80.00 8000-8000 242.00 287.28 244.50 298.75 253.40 9000-10003 1199.20 229.90 1-103.36 -60.02 -33.33 203.80 193.11 186.40 178.20 171.40 218.50 209.10 200.10 191.20 183.00 :192.70 :185.90 :179.70 :173.30 233.20 222.40 212.60 204.00 195.50 241.90 230.40 219.40 210.00 11.3 7.1 5.4 6.1 4.7 10000-11000 11000-12000 12000-13000 13000-14000 -9.90 8.0 :-163.28 -30.07 18.9 :-136.72 !-113.44 !-116.66 -83.38 -80.00 -48.81 -43.38 -29.86 -28.69 -28.66 -23.30 -8.77 -8.84 -8.84 -6.84 66.66 66.46 53.38 46.61 4.1 2.4 2.1 2.1 16.9 16.9 17.6 16.6 14000-15000 :167.50 1-103.38 201.10 15000-18000 | 182.10 18000-17000 | 158.80 17000-18000 | 151.83 18000-18000 | 145.70 185.40 159.90 154.20 146.40 175.40 168.70 162.00 158.70 187.90 180.50 172.70 185.40 193.00 188.72 177.50 170.30 -96.74 -83.48 -75.98 -38.97 -38.01 -33.98 -33.98 -23.30 -20.08 -20.00 -6,77 -6,77 -7,87 1.3 | 0.6 | 0.5 | 2.7 | 4.3 2.7 1.3 2.7 14.8 14.8 15.8 36.88 -88.04 30.00 27.71 -17.98 -16.01 -18.01 -14.08 -13.98 20000-21000 ;135.10 21000-22000 ;130.10 22000-23000 ;125.40 23000-24000 ;120.10 24000-25000 ;115.80 138.10 133.40 128.00 124.20 120.00 151.60 145.40 139.60 133.80 129.20 -61.95 -27.98 143.70 138.40 133.40 128.35 123.60 -10.00 -10.00 -10.00 -10.00 198.50 0.1 0.5 22.03 10.7 149.20 143.10 137.20 131.00 -48.04 -46.09 -38.04 -38.01 -26.01 -23.98 -20.00 -20.00 0.1 : 0.1 : 0.0 : 0.1 : 0.4 0.3 0.1 0.0 4.53 5.0 -18.04 -18.01 -18.01 -14.06 -13.98 25000-26000 :111.40 26000-27000 :107.30 27000-28000 :102.80 28000-29000 : 98.00 28000-30000 : 95.33 118.00 112.20 108.00 119.20 115.10 110.90 123.20 110.50 113.90 125.70 120.70 116.90 -27.98 -28.01 -22.03 -13.98 -13.98 -12.03 -1.95 0.0 0.0 -11.95 -2.07 -3.98 -12.03 0.0 0.0

WET SEASON

0.0

0.0

0.0

0.0

0.0

0.0

CWEN ROBERTS

104.80

97,90

94.70

91.10 87.90 85.80

91,80

88.50 84.80 81.70 79.40

30000-31000

32000-33000 33000-34000 34000-35000

106.80

39.80

98.40 92.90 89.40 86.60

109.10

105.20

101.80

98.10 94.60 90.90 87.70

110.80

102.70

99.10 95.50 91.60 88.30

0000Z

-12.03

-12.03 -12.03 -12.03 -10.00

-11.98

-10.00 -10.00 -10.00

-10.00

-20.00

-18.01

-18.01

-28.01 29.01

-10.00

-10.00

-10.00 -10.00

-10.00

-8.05

-7.97

-7.97 -7.97 -7.97 -7.97

HGT FT MSL	1%	N PERCE	SELITH:	90%	99×	1 1%	DND 10%	R PERCEN	TILES SOX	89X	11	PERCENT DUCT	OCCURR BRLR	ENCE :
SFC-800 500-1000 1000-1500 1500-2000 2000-2000 3000-3000 3000-3500 4000-4600 4500-5000	:359.58 :348.65 :339.19 :325.79 :311.52 :293.19 :261.16 :272.41 :262.07 :254.00	384.75	385.56 376.00 366.86 357.08 346.75 335.36 324.56 315.58 307.19 299.06	394.50 396.50 376.75 367.19 357.25 346.50 335.51 326.86 319.50 310.38	394.38 383.56 374.15 364.25 354.06 343.19 334.25 328.04	:-208.12 :-120.83 :-188.58 :-210.41 :-210.41 :-204.18 :-164.58 :-170.83 :-170.83 :-183.33	-83.33 -85.41 -95.83 -110.41	-54.18 -80.41 -82.50 -84.58 -82.50 -78.33 -58.25 -54.18 -52.08	33,33 -41,66 -41,66 -43,75 -45,63 -45,63 -35,41 -31,25 -27,08 -25,00	280.06 -10.42 -10.42 -12.80 -2.08 -11.80 20.83 18.78 37.80		8.6 / 0.6 2.4 5.4 5.1 4.6 2.7 2.6 2.5 3.3	20.4 1 3.8 1 8.0 1 10.4 1 15.4 1 13.5 1 8.3 7 6.1 1 6.8 1 8.3 1	42.2 0.7 0.8 1.0 1.6 2.1 2.7 5.2 4.1 8.9
5000-8000 8000-7000 7030-8000 8000-8000 9000-10000	1240.84 1228.90 1218.70 1207.60 1198.30	288.25 247.40 233.40 221.80 211.30	286.19 270.19 285.60 241.70 229.60	299.08 283.80 289.88 286.19 243.40	291.56 278.06 264.75	:-192.87 !-178.48 :-178.08 :-180.02 :-139.97	-89.58 -78.16 -73.43 -83.41 -56.64	-50.00 -45.83 -43.23 -37.50 -33.33	-28,00 -22,91 -19,92 -16,86 -10,03	37.50 41.68 56.64 83.28 58.84	11	6.7 : 6.3 : 5.6 : 5.4 : 3.9 :	14.3 : 12.4 : 10.5 : 9.8 : 7.3 :	7.5 1 8.1 1 10.6 1 12.3 1 13.4 1
1000C-11000 11000-12000 12000-13000 13000-14000 14000-18000	:185.80 :179.30 :173.10	202.30 193.00 195.30 178.30 171,50	219.50 209.10 199.80 191.20 183.00	232,20 221,70 212.10 203 *0 195.10	229.20 219.50 209.95	:-139.97 :-133.33 :-116.66 :-100.00	-89.89 -50.00 -80.00 -43.38 -43.23	-30.07 -29.95 -28.69 -26.56 -23.30	-10.03 -10.03 -8.64 -6.64	80.02 63.28 53.38 46.74 46.61	11	4.1 : 4.4 : 2.9 : 1.9 : 1.4 :	8.1 : 7.8 : 8.0 : 4.6 : 4.3 :	17.1 14.9 18.1 18.2 15.0
15000-16000 18000-17000 17000-18000 18000-18000 18000-20000	1168.70 1151.70 1145.73	185.50 180.00 154.20 148.50 142.80	175.50 168.90 162.10 155.80 146.80	187.40 178.80 172.20 185.20 157.60	105.50 177.40 170.10	-89.97 -82.39 -73.99 -92.03	-39.97 -36.95 -32.03 -32.03 -30.00	-23.30 -21.98 -20.00 -18.04 -17.98	-8.77 -7.97 -7.97 -7.97 -10.00	43.36 38.04 38.01 28.01 18.01	11	1.3 (0.8) 0.8 (3.1)	3.9 : 3.0 : 1.6 : 3.0 : 0.7 :	14.8 1 18.2 i 14.6 i 14.9 i
20000-2:000 21000-22000 22000-23000 23000-24000 24000-26000	1130.10	138.00 133.40 129.00 124.20 119.80	143.20 138.20 133.30 126.40 123.70	151.30 148.20 139.50 133.70 120.00	155.40 149.09 142.90 136.97 130.60	: -43.98 : -38.04	-26.01 -23.98 -22.03 -20.00 -20.00	-17.96 -16.01 -16.01 -14.06 -13.98	-10.00 -10.00 -10.00 -10.00 -10.00	16.01 13.88 11.85 4.06 3.88	11	0.1 ! 0.1 ! 0.1 ! 0.1 !	0.7 t 0.2 t 0.0 t 0.0 t	8.8 i 7.8 i 7.8 i 6.3 i
25000~25000 25000~27630 27000~28630 25000~29000 25000~30000	1107.30 :102.60 : 99.00	116.00 112.20 108.00 104.40 101.03	119.30 115.20 110.90 106.90 103.30	123.10 118.50 113.60 109.20 105.30	120.80 118.89 110.72	: -28.04 : -24.08 : -22.02 ! -20.00 : -17.88	-18.04 -16.01 -16.01 -14.06 -13.96	-13.93 -13.98 -12.03 -12.03 -12.03	-11.95 -11.95 -10.00 -10.00	0.00 -2.03 .5.84 -6.02 -7.97	11	0.0 ! 0.0 ! 0.0 ! 0.0 !	0.1 0.0 0.0 0.0	3.0 ! 1.6 ! 1.2 ! 0.6 !
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	1 88.50 1 84.90 1 61.70	97.80 94.80 91.00 87.90 65.70	99.80 88.40 92.90 89.40 36.60	101.60 98.20 94.60 90.80 87.70	99.10 95.50 91.60	: -18.01 : -18.04 : -22.03 : -28.01 : -23.88	-12.03 -12.03 -12.03 -12.03 -10.00	-11.85 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 1	0.3 : 0.2 : 0.1 : 0.0 : 0.0 :

1200Z FIGURE B-3-1-C B-39

OWEN ROBERTS

WET SEASON

THICKNESS STATISTICS

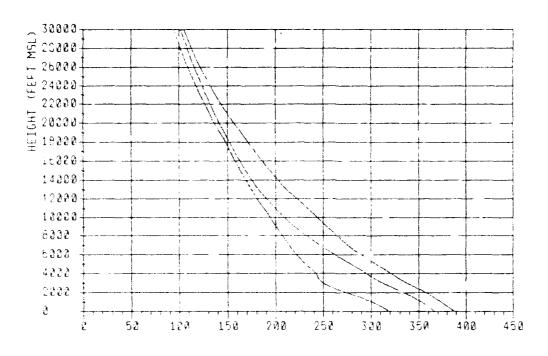
			DUCT					SRLI					NORM				SUB		
Dask	ı			RCENTIL		1			BRCENTII	LES	:		THE P	ERCENTI	LES		THX PI	ERCENT I	LES
PT MGL	ا - • -	XFRQ	10%	80%	90%	1	XFRQ	10%	80%	90%	:	*FRQ	10%	40%	90%	*FRQ	10%	50%	90×
PC-800		7.8	91	2 48	304	1	17.2	98	285	394	;	99.2	1270	4419	21310 :	30.7	89	285	384
00-1000	1	0.4	94	295	492	;	0.8	9.6	443	1280	1	1.4	98	8809	34561 :	0.2	9.8	492	767
00-1500	1	1.8	98	492	709	1	4.3	98	787	1181	1	1.8	9.0	4038	29883 :	0.8	9.0	787	1181
00-2000	ı	3.7	197	394	591	1	8.2	98	689	1378	:	4.1	925	5610	33341	0.3	197	394	1181
00-2800	1	8.9	197	394	649	:	11.0	98	891	1181	;	7.8	966	6004	17743	0.5	9.0	394	1181
00-3000	1	4.0	110	394	787	1	8.9	9.6	492	1181	1	11.8	492	4183	15710 :	1.2	96	492	1181
00-3800	1	2.7	197	394	788		4.3	9.8	394	1083	i	10.0	246	3180	11319	1.3	90	394	955
00-4000	1	2.4	197	394	610	t	4.5	9.0	295	984	:	7.4	167	3051	13130	1.0	9.0	492	1004
00-4500	i	2.4	177	295	489	i	4.8	98	344	1083	i	8.3	9.8	2854	27881	2.2	157	591	925
00-8000		2.9	98	295	591	i	0.4	9.8	295	797	i	10.2	90	5463	28480	3.8	96	295	787
	-+-										+ -								
00-8000	1	5.9	98	295	482	1	10.2	98	295	787	:	22.6	98	5315	29443 :	€.8	98	394	1063
00-7000	- 1	4.2	98	295	394	t	8.Q	98	295	689	1	11.7	9.0	2658	12658 :	6.8	118	492	1181
00-8000	1	4.8	9.8	197	394	;	8.4	98	295	689	:	14.7	98	2284	11037 :	6.3	96	394	984
00-2000	1	8.7	98	197	295	1	8.2	9.8	295	492	t	18.5	90	1969	23301 :	10.9	98	492	1181
00-10000	t	4.1	98	197	308		9.9	9.8	197	394	:	14.9	9.8	1378	13681 :	11.0	98	394	945
100-11000		8.4	98	197	384	- +	10.4	98	197	394	*-	20.2	98	2067	24541	12.2	38	394	1073
100-12000		3.6	98	197	295	į	6.1	88	197	394	į	16.9	98	2087	23183	12.1	98	492	1083
100-13000		2.1	98	98	295	i	5.0	9.0	197	315	:	15.8	9.0	2656	22179 :	11.5	9.6	492	984
100-14000		2.0	98	197	197	;	6.7	9.0	197	295		18.5	9.6	1870	21293	12.4	98	394	966
100-18000		2.0	96	94	187	;	4.5	98	197	295	;	19.0	9.0	3150	20595	11.3	98	394	-86
	-+-					· • - ·		-			•-			2150					
100-18000	1	1.3	98	98	197	:	4.0	98	197	295	1	15.0	98	2953	19640 :	10.1	96	394	787
100-17000	;	0.6	102	164	223	1	2.6	131	164	295	1	11.5	262	2756	18837 :	11.5	164	492	802
100-16000		0.5	164	164	164	1	1.3	164	164	164	;	11.0	492	3117	17553 :	10.1	1	492	820
100-19000		2.7	184	164	184	1	2.7	164	164	164	:	19.6	656	15912	16569	15.3	164	328	656
100-20000	1	0.0				,	0.8	164	164	164		11.3	738	14928	15748 :	8.4	164	492	820

0000Z

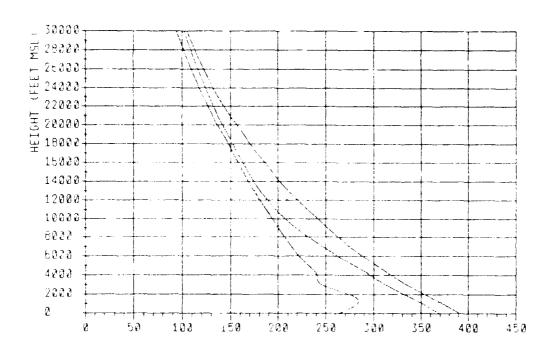
			DUCT				SRLI					NORM				SUB		
PASE	1			RCENTIL		1		RCENTII		;			ercenti				RCENTI	
PT MSL		XFRQ	10%	50%	90%	: XFRQ	10%	50%	90%	1 X	FRQ	10%	50%	90% ;	MFRQ	10%	50%	90%
SFC-500	1	8.6	91	197	384	1 20.4	98	197	669	9	6 . B	888	5359	34877	42.2	89	285	384
800-1000	- 1	0.3	98	492	984	: 0.8	9.8	98	748	:	2.0	98	3051	24525 :	0.1	295	640	984
000-1800	1	2.2	246	492	886	1 4.0	98	940	1152	;	2.2	258	4527	33833 :	0.4	98	591	1575
500-2000	- 1	3.6	197	394	689	7.1	98	591	984	:	4.4	9.8	4527	18019 :	0.6	'98	492	668
000-2500	1	2.8	197	384	591	9.2	98	492	1181	t	8.7	197	3937	15068 :	1.0	167	443	1358
800-3000	1	3.1	197	394	889	1 5.8	98	394	984	1	9.7	738	3986	15863	1.2	98	492	984
000-3500	- 1	1.3	98	394	689	3.4	98	394	1181	:	7.4	98	2559	14367	1.5	98	394	886
800-4000	ı	1.0	157	295	630	3.5	98	492	884		4.8	9.8	1969	22002 :	1.9	118	591	1280
000-4800		1.8	98	394	591	3.7	98	443	787		4.6	98	1772	10571	2.5	276	591	666
500-5000		2.5	197	295	689	1 5.9	98	295	738		9.6	9.0	6216	30250 :	4.3	197	394	905
	-+-											·- <u>-</u> -						
000-6000		5.4	197	295	561	1 11.3	98	394	787	. 2	2.2	295	6083	29561 :	5.0	98	492	984
000-7000	1	5.1	9.0	295	492	9.6	98	394	689	: 1	3.0	98	3101	28380 :	6.3	108	492	964
000-8000	- 1	4.8	98	295	394	7.8	9.9	295	891		4.7	98	2067	15269 :	8.1	9.8	492	888
000-9000	1	4.8	98	197	394	1 7.9	98	295	492	: 1	4.5	98	1772	15584	8.5	197	492	1181
000-10000	1	3 . 4	90	197	325	1 6.0	96	295	492	1 1	2.4	98	1478	15820 1	9.8	98	492	984
000-11000	- • -	3.9	98	197	290	1 7.0	98	197	492	+	7.8	96	2067	24541 :	11.2	98	394	964
000-12000		4.1	98	98	295	: 6.8	98	197	394		5.7	98	1870	23429	10.8	197	492	984
000-13000		2.5	9.0	197	295	4.8	98	197	295		3.9	98	2313	22474	10.7	98	492	1053
000-14000		1.7	20	99	197	4.2	94	197	298		5.4	96	3268	21887	11.3	96	394	888
000-15000		1.3	9.0	9.0	197		94	98	298		2.7	98	2674	20506	11.1	98	394	886
	- • -		. 										20/7	20500 1			304	
000-18000	i i	1.3	98	9.9	197	3.7	98	197	197	1	3.0	90	2756	19620	9.6	98	394	820
000-17000		0.5	98	184	184	: 2.5	9.0	164	315		2.5	328	2297	18701	11.1	164	476	984
000-18000	;	0.5	184	184	164	1.4	184	164	328		2.3	492	3937	17717 :	10.5	164	492	820
000-19000		3.1	164	184	184	3.0	164	184	164		7.8	658	15912	16569	11.8	164	328	656
000-20000		0.1	164	184	184	0.7	184	184	328		8.8	492	14928	15748	6.9	164	328	656

1200Z

FIGURE B-3-1-D B-40



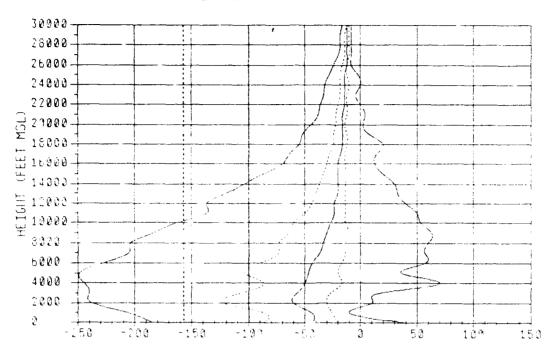
N (N-Units) 0000Z



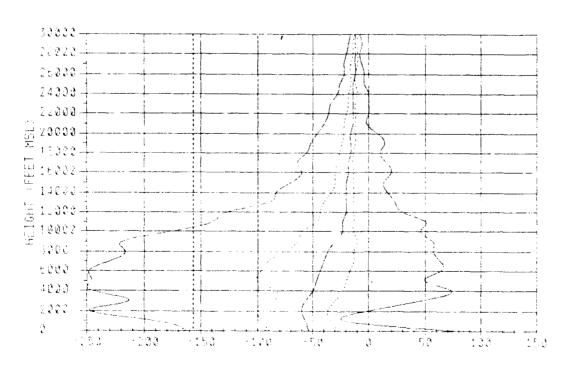
N (N-Units) 1200Z

FIGURE B-3-2-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-3-2-B B-42

OWEN ROBERTS

WET-DRY TRANSITION

FT MIL	18	N PERO	ENTILES 50%	90%	99%	1 18	DND1	BON BON	POR	90%	1.1	PERCENT DUCT	OCCURR BRLR I	ENCE
SFC-800 500-1000 1000-1800 1800-2000 2000-2800 2500-3000 3600-4000 4000-4800	1328.32 (314.36 (258.63 (258.63 (250.48 (271.70 (241.40 (1237.70 (1234.20	302.38 343.80 337.72 330.90 323.19 312.10 301.28 288.37 278.00	372.88 364.00 386.69 349.28 340.38 329.50 310.08 301.88	380.06 377.00 368.88 360.80 301.19 340.20 329.19 320.56 312.50	367.86 376.87 386.38 388.19 347.40 336.97 326.80 320.69	-242.03 -100.00 -98.02 -204.33 -231.66 -280.05 -227.06 -231.23 -231.23	-86.88 -86.68 -79.18 -106.96 -106.27 -100.00 -87.50 -77.08	-50.83 -47.81 -45.63 -47.81 -54.16 -98.33 -58.25 -52.06 -50.00	0.00 -29.18 -29.16 -29.18 -31.25 -31.25 -31.25 -27.06 -23.30	107.78 -8.33 -10.31 -10.42 -16.66 -0.00 10.42 18.66 33.33	# 1	7.4 i 0.2 i 0.3 i 3.6 i 7.2 i 8.1 i 6.7 i 6.0 i 3.8 i	16.7 1.4 1.0 7.1 15.6 14.7 10.9 7.8	17.6 0.7 0.7 0.5 0.5 0.5 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8
4500-6000 5000-8000 6000-7000 7000-8000 8000-9000 9000-10000	1238,72 1227,38 1218,82 1212,12 1204,78 1198,22	268.56 249.81 233.30 220.50 210.60 202.10	294.19 291.50 295.50 249.80 235.10 220.50	305.80 295,19 281.25 288.50 255.98 243.70	304.11 289.16 276.06 263.56	1-251.92 1-235.79 1-232.91 1-243.05 1-223.30 1-200.00	-83.33 -93.33 -83.33 -83.33 -73.30 -83.41	-47.81 -45.83 -41.66 -39.58 -36.58 -35.33	-18.88 -18.92 -14.58 -13.28 -10.10 -10.03	66.33 61.43 63.36 93.33 90.02 76.66	11	9.0 9.0 9.8 9.3 10.9 6.2	17.4 : 14.6 : 14.6 : 11.5 : i	8.4 2
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	:185.30 :178.02 :172.60 :184.90	194.70 187.40 180.80 174.50 188.60	208.90 197.70 186.40 180.50 173.40	231.70 220.30 210.00 201.10 191.70	229.46 218.00 208.10 199.90	:-210.02 :-178.69 :-128.28 :-128.69 :-113.41	-63.41 -63.25 -43.36 -36.71 -36.71	-26.69 -23.30 -23.30 -20.08 -20.08	~13,28 ~13,28 ~13,28 ~13,28 ~13,41	78.07 68.52 48.61 48.61 43.33	11	10.4 (7.4 (3.8 (3.7 (2.4 (15.2 (10.6 : 6.1) 6.1) 5.0)	17.0 / 11.6 ! 9.5 ! 9.6 !
15000-16000 16000-17000 17000-18000 18000-18000 18000-20000	(158.25 (161.10 (148.30 (138.60	163.10 157.80 152.50 148.90 141.90	187.20 181.70 156.00 150.80 144.90	183.00 178.10 188.80 181.30 154.30	184.10 175.50 168.67 160.90	-89.97 -78.88 -65.99 -84.05 -48.62	-30.07 -28.04 -28.01 -24.08 -22.22	-19.92 -17.96 -17.96 -16.01 -16.01	-13.28 -13.98 -13.98 -12.03 -13.98	28.69 25.77 17.96 18.04 10.00	11	0.3 ! 1.0 ! 0.8 ! 1.3 ! 0.5 :	3.6 : 2.6 : 1.3 : 1.6 : 0.8 :	7.8 ! 8.0 ! 6.6 ! 7.1 ! 5.5 !
	:130.01 :125.21 :120.10 :115.50	137,30 132.80 128.57 123.90 119.80	130.60 131.30 126.80 122.30	142.30 136.70 131.30 126.30	148.10 142.10 136.19 130.00	-43.98 1 -39.98 1 -32.03 1 -30.00	-11.90 -20.00 -20.00 -17.96 -17.96	-14.06 -13.98 -13.98 -13.88	~12.03 ~11.95 ~11.95 ~11.95	3.98 1.90 0.00 -2.05	11	0.0 :	0.0 1	3.5 : 3.7 : 2.7 : 2.2 :
28000-27000 27000-28000 28000-28000 28000-30000	.102.78 : 98.99 : 95.30	112.20 108.10 104.50 1C1.20	114.40 110.40 108.60 103.10	117.20 113.00 108.60 104.90	120.00 115.20 110.80 108.40	! -22.03 ! -20.00 ! -18.26 ! -16.01	-15.94 -14.08 -13.98 -13.99	-12.03 -12.03 -12.03 -11.85 -10.00	-11.98 -10.00 -10.00 -10.00	-7.97 -8.02 -8.02 -7.97	11	0.0 :	0.0 1	1.2 1 0.7 1 0.7 1 0.8 1
31000-32000 32000-33000 33000-34000 34000-36000	: 84.69 : 81.68	94.80 91.10 87.90 45.60	98.40 92.90 89.40 86.80	99.00 94.80 90.80 67.80	98.50 91.81	: -17.96 : -20.00 ! -25.95 : -21.96	-12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.05	-7,97 -7,97 -7,97 -7,97	11	0.0 1	0.0 1	0.3 : 0.2 : 0.2 :

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HGT FT MSL	: : 1%	N PERC	ENTILES 50%	90%	99X	1	1%	DND1 10%	E PERCEN	TILES SOR	89x	11	PERCENT DUCT :	OCCURR SRLR (ENCE EVB
8FC-800	1328.50	392.06	373.88	306.56	396.25			-112.50	-58.25	-10.42	205.92	11	7.0 1	24.2	19.0
500-1000 1000-1500	1259.73	341.69 335.50	364.38	377.08 388.19	385.25			-70.83	-82.08	-29.16	-19.04	11	0.8 1	1.7	0.9
1500-1600	1200.10	328.88	348.00	359.56	375.82 387.10	:-133 :-163		-70.83 -81.25	-50.00 -52.00	-29.16 -30.42	-16.66 -19.75	11	1.0 (3.1 (2.8 : 8.2 :	0.2
2000-2500	249.63	320.56	339.06	380.00		-230		-100.00	-56.25	-33.33	-18.75	: 1	4.2	10.8	0.3
2000-3000	1246,19	310.69	328.89	339.66	347.75	1-178		-69.56	-56.25	-35.33	-10.42	- 11	3.5	9.2	0.7
3000-3500	:241.10	302.00	310.00	329.69	337.90	1-179	. 66	-03.33	-84.16	-33.33	-10.42	1.1	2.8 1	8.9 t	1.0
3500-4000	237.80	293.80	310.25	321.38		: - 191		-77.08	-50.00	-27.08	16.66	: :	3.1 !	4.5 :	2.8
4000-4500	233.84	203.56	302.25	313.55	320.88			-72.91	-80.00	-22.91	23.50	1 1	3.3 1	4.7	4.0
4500-5000	: 230.70	275.56	295.00	306.25	314.01	1-276	. 74	-82.91	-47.91	-20.83	81.41	11	7.2:	9.5 :	7. 5
5000-8000	1229.30	255.20	202.38	295.69	304.03			-96.66	-47.B1	-20.83	59.25	1.1	12.8	17.6 1	9.3
9000-7000 7000-8000	1218.93	234.80	265.75 250.60	280.88	298.75 278.25	-251		-86.59 -79.79	-43.75 -39.97	-14.08 -13.28	96.49 96.16	11	11.4 1	14.1 !	12.3
8000-9000	1204.90	211.00	234.00	255.28	263.56	:-241		-76.69	-38.59	-13.28	71.61	11	13.4	18.8	14.2
9000-10000		202.00	219.30	243.90	250.80	-230		-86.88	-33.33	-10.03	99.35	- 11	9.3	14.4	14.7
10000-11000	:191.70	194.50	207.70	232.10	240.80	:-193	. 3 6	-63.28	-26.69	-13.28	70.05	-++	8.9 :	11.6 1	13.9
11000-12000	:184.90	187.40	197.40	220.40	229.05	1-163	. 28	-53.38	-23.30	-13.28	83.28	1.1	0.3	10.3 :	13.1
13000-13000		180.90	168.50	210.10		:-153		-46.81	-23.30	-13.28	62.59	1.1	4.6	9.2 1	12.6
33000-14000		174.40	100.50	189.90	208.70	:-140		-39.97	-20.05	-13.28	86.70	1.1	5.2	7.4	11.4
14000-15000		168.40	173.30	191.59	199.20	-100		-33.33	-20.05	-13.28	39.29	-++	2.5 :	3.8 :	11.4
15000-16000	161.20	162.90	166.90	103.20	191.40	:-106	. 84	-33.33	-19.92	~13.41	38.59	1:	1.7	4.7 1	9.3
16000-17000		197.70	161.50	178.25	183.57			-28.04	-17.98	-13.98	29.49	1.1	0.6 1	1.7	7.8
17000-16000		152.50	155.00	187.40	175.30	9 2		-28.01	-14.01	-13.98	17.97	: 1	0.5	0.8	8.2
18000-19000 19000-20000		146.90	150.50	160.30	168.11	: -72		-23.90	-16.01	-11.95	12.03	1.1	1.1	2.4	7.4
19000-20000	- * ~ ~ ~ ~ ~ ~ ~	141.80		153.40	180.24		.04	-12.03	-18.01	-13.98	11.95	11	0.0 !	0.3 !	0.i
20000-21000		137.20	140.15	147.30	163.54	-50		-21.95	-18.01	~13.98	3.98	1:	0.0 1	0.2 1	4.3
21000-22000		132,70	135.60	141.50	147.00		. 96	-20.00	-14.06	-12.03	6.78	11	0.0 1	0.2	4.1
22000-23000 23000-24000		128.40	131.20	136.40	141.24	- 31	. 03	-18.04 -17.99	-13.96 -13.98	-11.95 -11.95	0.00 -2.03	1:	0.0:	0.0 :	3.1
24000-25000		119.60	122.40	126.10	129.90			-10.01	-13.98	-11.95	-2.00	- 11	0.0 1	0.0	3.1 2.6
	. •					- -						- • •		+	
25000-26000		119.70	110.30	121.50	124.70	: -25		-16.01	-13.90	-11.95	-6.02	: 1	0.0	0.0	1.0
26000-27000 27000-28000	107.00	111.90	114.45	117.30	119.80	: -20		-16.01 -14.06	-12.03 -12.03	~11.95	-5.94 -8.02	11	0.0	0.0 1	1.8 0.7
28000-28000		104.30	106 50	108.60	110.30		. 00	-13.98	-12.03	-10.00	-7.97	- ; ;	0.0	0.0	0.3
28000-30000		101.00	103.00	104.80	108.30		. 01	-12.03	-11.95	-10.00	-7.97	- ; ;	0.0	0.0 1	0.5
	- •											-++		+	
30000-31000		97.70	99.70	101.40	102.50		.01	-12.03	-10.00	-10.00	-7.87	: ;	0.0 1	0.0	0.0
31000-32000		94.50	96.40	98.50	99.00		. 13	-12.03	-10.00	~10.00	-7.97	1.1	0.0	0.0 1	0.2
32000-33000 33000-34000		87.70	92.80 89.40	94.60	95.50		.03	-12.03 -12.03	-10.00	-10.00	-7.97	11	0.0 !	0.0	0.0
34000-35000		45.50	86.80	97.80	88.50	-16		-10.00	-10.00	-10.00 -0.05	-7.97 -7.97	11	0.0 1	0.0 :	0.0
		-3.30	55 . 5 0	g., go	50			- 10.00	10.00	-0.00	- / /		0.0	0.0	0.0

1200Z FIGURE B-3-2-C

THICKNESS STATISTICS

BASE			DUCT	S RCENTIL	. Eg		SRL: THK P	rs Ercentii	LES :		NORM THE P	ERCENTI	LES	ı	SUB THK PI	RCENTI	LRS
FT MSL	1	XFRQ	10%	80%	90%	MFRG		50%	90%	XFRQ	10%	50%	90%	XFRQ	10%	50%	90%
57C-800	- • -	7.4	89	285	390	15.7	98	340	482	99.3	1672	8010	34788	17.6	89	384	384
500-1000		0.2	394	384	394	: 0.0				1.2	98	12980	34680	0.3	98	98	1181
1000-1500	1	0.3	591	691	591	1 0.8	591	886	1181 :	0.9	3740	9153	12992	0.3	9.6	541	984
1500-2000	t	3.5	197	492	787	1 6.2	9.0	689	1142	1.0	1083	3838	33400	0.0			
2000-2500	- 1	4.7	197	394	630	1 7.4	9.8	443	1014	5.6	1330	3543	11614	0.2	394	394	394
2800-3000	1	4.8	167	394	620	1 7.8	98	492	945	10.9	98	3199	12106	1.6	98	295	1476
3000-3800	ŧ	4.3	286	492	787	1 4.7	9.0	492	807 :	9.1	197	2018	31874	1.2	98	344	1083
2000-4 000	t	2.8	197	295	522	: 4.3	98	295	866	7.1	90	1969	9922	1.9	512	984	1358
4000-4800	1	2.1	197	394	591	1 4.6	98	295	886 :	5.7	99	2067	30998	2.2	177	591	1280
4600-5000	t .	5.4	138	295	501	8.6	96	295	369	11.3	197	2904	30250	5.2	120	394	1162
8000-8000	ī	7.1	98	298	591	1 12.4	98	298	787	24.4	90	5069	29926	7.9	217	492	1516
6000-7000	1	8.8	187	295	492	1 11.5	98	295	591 :	17.7	98	2854	28479	8.7	197	591	1083
7000-8000	- 1	7.4	197	295	492	1 11.1	98	295	591 :	19.1	98	1772	27583	9.3	295	591	1083
8000-9000	1	9.3	9.0	295	394	: 12.7	98	197	492	18.6	96	1873	26608	9.6	197	492	1083
9000-10000	1	7.1	98	497	384	9.3	9.0	197	492	15.9	9.8	1772	28723	10.3	177	492	984
10000-11000	- • -	9.2	96	197	298	1 12.2	98	197	394	22.5	98	2805	24837	11.1	98	295	925
11000-12000	1	8.9	98	197	295	9.5	9.0	197	295	18.9	98	2904	23852	8.0	128	492	1053
12000-13000	:	3.2	98	197	295	5.0	90	148	295	12.5	98	3199	22770		98	394	1102
13000-14000		3.8	98	197	295	: 5.9	98	96	295	0.2	90	1870	21588	6.8	187	492	1024
14000-18000	1	2.5	98	98	248	4.3	9.6	197	295	10.3	96	2362	20752	6.9	98	394	1181
18000-18000	- + -	0.8	98	197	197	3.4	98	197	197	8.7	98	4827	19787	5.6	98	394	984
18000-17000	i	1.0	98	164	184	2.4		164	213	8.4	321	7349	16701	6.3	164	492	968
17000-18000	:	0.5	164	164	164	1.3	164	164	326	6.1	328	5413	17717	4.2	184	492	868
18000-19000		1.3	164	164	164	1 1.6	164	164	164	8.8	771	15912	16733	6.1	164	492	837
19000-20000		0.3	164	104	184	0.5	184	164	164	4.3	820	14928	16633	4.0	164	492	736

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			DUCT					SRLR					NORM				SUB		
BASE	•			ERCENTIL		1			RCENTII		1			ERCENTI				RCENTI	
FT MSL	. ! - • -	MFRQ	10%	80%	90%	:	MFRQ	10%	50%	90%	:	MFRQ	10%	50%	90% :	XFRQ	10%	50%	90%
SFC-500	i	7.0	8 9	285	473	1	24.2	98	285	384	ī	98.0	1658	5895	15997	19.0	89	187	384
800-1000	1	0.2	394	394	394	1	0.7	98	148	1083	1	1.4	1181	4872	34384 :	0.5	295	394	689
1000-1500	- 1	1.0	9.8	443	591	;	2.1	98	787	1437		0.5	1870	3248	3842 !	0.0			
1500-2000	•	2.0	187	295	669	1	0.3	9.6	689	1301	•	1.9	689	4085	8061 1	0.2	394	394	394
2000-2500	1	2.8	197	394	522		3.1	98	394	965	:	4.5	1762	3937	11279 :	0.2	295	295	295
2500-3000	1	1.6	295	394	787	1	4.2	98	246	984	1	9.2	630	3543	8720	0.7	197	889	1575
3000-3500	1	1.9	197	295	827	t	2.8	96	298	1043	:	4.0	256	3051	8484 :	0.7	295	738	1378
3800-4000	- 1	1.7	207	394	879	:	2.3	98	295	787	:	4.2	98	3396	31239 :	1.7	236	394	1240
4000-4500	1	2.1	128	344	689	1	3.5	98	394	879	:	4.3	98	1476	30969 :	2.1	226	541	686
4600-6000	1	6.0	9.8	295	512	:	8.0	98	197	689	;	11.9	138	4823	30250	4.5	98	295	827
8000-8000		9.7	98	298	492	;	14.6	98	394	787	•-	23.4	138	6693	30152 :	7.0	197	591	1457
6000-7000	i	5.0	98	295	492	:	10.8	96	197	889	;	19.1	98	2608	28479	8.7	197	394	1083
7000-8000	ı	8.9	167	295	482	i	13.0	9.8	187	482	÷	18.5	197	2382	27691	8.4	286	492	1083
8000-9000		10.9	98	298	394	i	13.6	9.6	197	492		20.4	98	3642	28707 :	10.9	98	492	1132
9000-10000	:	7.9	9.8	246	463	1	9.0	98	148	344	:	19.0	98	2264	25644	9.5	167	394	984
10000-11000	-+-	0.1	98	197	298	•	10.6	88	197	472	• - !	19.1	98	3150	24837 :	9.2	98	492	1181
\$1000-12000	:	8.0	98	197	295	:	8.9	9.0	90	394	i	14.6	138	2559	23459	9.5	197	492	1329
18000-13000		4.1	98	197	308	1	8.4	9.8	197	315	i	15.2	98	2756	22642	8.4	98	394	1101
15000-14000	1	4.0	9.0	98	276		7.0	9.6	148	298	i	14.1	98	1378	21608 :	7.8	98	394	1004
14000-18000	t	2.5	9.0	9.0	226	t	3 . 6	9.0	9.8	236	į	11.2	98	1542	20535	8.2	98	394	925
18000-18000	- • -	1.6	98	98	285	- 	4.7	98	197	295	* - !	10.1	98	6070	19620	8.9	98	295	820
18000-17000	ī	0.6	96	9.6	131	:	1.6	194	194	295	i	6.6	478	3163	18619 :	8.9	184	492	956
17000-18000	:	0.5	184	184	164	i	0.5	164	164	328	Ĺ	5.7	984	7218	17717 :	4.3	164	492	853
18000-19000	1	1.1	164	184	164	:	2.4	164	184	164		9.0	989	15912	16869	6.5	164	328	820
19000-20000		0.0					0.3	104	184	164	i	5.1	1280	18256	18748	3.6	184	410	820

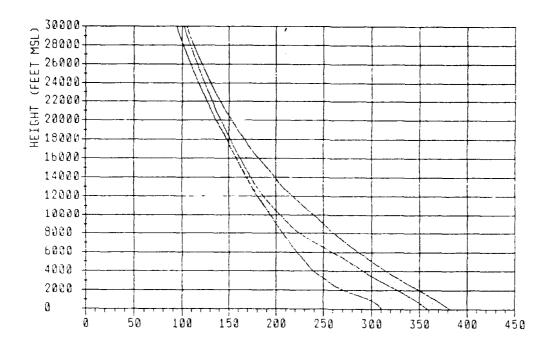
1200Z

FIGURE B-3-2-D

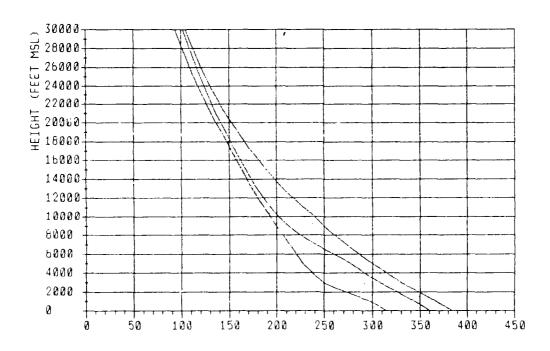
B-44

OWEN ROBERTS DRY SEASON

N PERCENTILES



N (N-Units) 0000Z

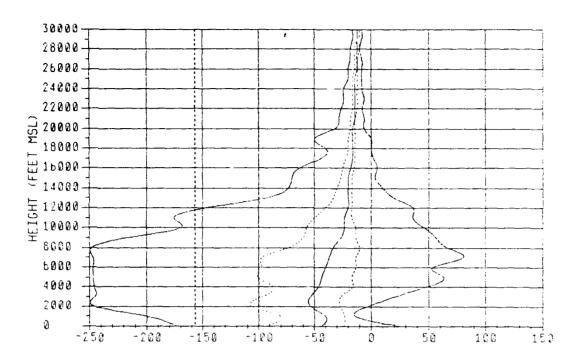


N (N-Units) 1200Z FIGURE B-3-3-A

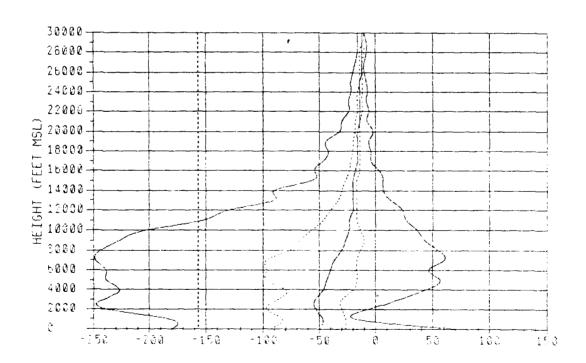
B-45

OWEN ROBERTS DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-3-3-B B-46

OWEN ROBERTS DRY SEASON

HOT PT MSL	1%	N PERCI	ENTILES SON	90%	55X	13	DWD 10%	H PERCEN	TILES	55x	::	PERCENT DUCT :	OCCURE BRLR	EFCE :
	319.82	339.69	364.60	377.00	366.46	1-201.65	-118.78	-86.25	-20.83		; ; ; ;	7,4	23.6	
	278.31	331.00	356.25	368.25		-100.00	-60.41	-39.58	-22.81		1 1	0.6	1.6	0.7 1
	301.07 :290.56	326.19 320.50	348.68	361.37		1-182.00	-88.88	-39.58	-22.91		1.1	1.2	3.8	
	275.14	312.56	333.38	383.86		1-248.83	-89.58	-43.75 -52.08	-28.00		: 1	8.4	10.3	
	265.03	302.25	322.19	334.38		1-285.75	-108.25	-56.25	-27.08 -27.08		11	7.4 1	13.0	
	255.96	290.50	311.88	324.00		-258.31		-54.16	-27.06		11	7.5	11.0	
3500-4000	248.84	279.51	302.75	315.56		1-317.22	-93.75	-80.00	-22.91		11	8.6	8.3	
	1242.40	268.16	294.56	307.78	318.06	1-298.41	-87.50	-47.91	-10.00		11	8.9 1	9.6	
4500-9000	237.50	256.54	287.38	300.88	308.74	1-295.22	-89.97	-45.83	-12.50	61.75	1 :	7.3	11.3	10.5
3000-8000	229.30	242.05	274.75	290.88	299.86	1-268.70	-100.00	-43.78	-10.68	64.58	1:	14.8 :	21.6	12.8
	221.20	227.80	257.88	276.56		:-270.86	-98.74	-39.58	-13.28	56.25	: 1	13.0 1	19.1	12.8
	213.70	210.00	239.70	263.86		1-296.56	-93.36	-38.71	-13.26		: :	14.0 /	18.4	
	205.80	208.90	223.30	250.90		1-253.25	-70.05	-30.07	-10.03		1 1	12.3 :	13.9	
9000-10000	: 188.80	200.90	211.20	238.30	248.30	:-210.02	-90.02	-26.69	-10.03	56.64	11	8.9 1	9.8	10.0
	192.10	194.00	201.80	228.60		1-163.41	-31.36	-23.30	-13.41	40.10	11	6.4	8.8	10.6
11000-12000		188.90	192.60	213.40		:-174.37	-48.74	-23.30	-16.88		1.1	6.3 :	7.8	9.2 1
12000-13000		180.50	184.90	200.80		1-130.07	-38.71	-20.05	-16.66		1.1	3.3 :	8.7	7.6 :
13000-14000		174.10 168.30	179.30	191.50		-90.01	-33.33	-20.08	-16.60		1 :	1.6 :	3.0	. 8.1
14000-15000	. 188. BO	168.30	171.60	182.10	198.20	-70.08	-29.95	-20.05	-16.66	9.90	11	1.0 :	1.8	3.6
13000-18000		162.80	166.00	173.70	187.50		-26.69	-19.92	-18.88	6.44	11	0.9	2.4	•
16000-17000		157.60	180.70	187.00		1 -56.32	-23.98	-17.96	-15.04		11	0.2 :	0.8	
17000-18000		152.30	185.10	160.20		-41.95	-21.95	-16.01	-13.98		: :	0.2	0.2	
19000-19000		148.70	149.70	154.40	164.16	-48.04	-30.00	-18.01	-13.98		11	0.7	1.7	
19000-20000	1139.70	141.70		148.40	158.50	-33.98	-18,74	-18.01	-13.98	-4.08	1 • • •	0.0 :	0.1	1.5
20000-21000		137.10	139.80	143.20		: -31.95	-18.04	-18.94	-13.98	-4.08	1.1	0.1	0.2	1.4
21000-22000		132.70	135.10	138.30		: -27.96	-17.96	~13.90	-13.99		1.1	0.0 1	0.0	
22000-23000		128.40	130.60	133.60		-28.01	-16.01	-13.98	-12.03		1.1	0.0	0.0	
24000-25000		123.70 119.60	128.30	129.20	133.10	1 -23.53	-18.01 -15.94	-13.98	-11.95		1:	0.0 !	0.1	
	•				120.00	41.90	-10.94	-13.98	-11.95	-8.05	ι: •••	0.0 !	0.1	0.3 1
25000-26000		115.70	118.00	120.30		-20.00	-14.08	-12.03	-11.95		1:	0.0 1	0.0	
20000-27000		112.00	114.20	116.30	118.70	1 -18.04	-14.08	-12.03	-11.95		1 1	0.0	0.0	
27000-28000 : 28000-29000 :	98.60	107.90	110.20	112.30		1 -18.04	-13.98	-12.03	-10.00		1.1	0.0	0.0	
29000-30000		104.30	106.30	108.10	109.80	: -16.01	-13.98 -12.03	-11.95	-10.00		! ;	0.0:	0.0	
						· - 1 · . 0 1	-12.03	-11.95	-10.00	-9.05	 ++:	0.0 :	0.0	0.0
30000-31000		97.70	99.60	101.20	102.40		-12.03	-10.00	-10.00		1.1	0.0 1	0.0	
31000-32000		94.40	86.30	98.00		-18.77	-12.03	-10.00	-10.00		1.1	0.0 1	0.0	
32000-33000 33000-34000	84.70 81.80	90.80 97.50	92.70 89.30	94.50		-20.00	-12.03	-10.00	-10.00		1 1	0.0 1	0.0	
34000-35000		85.30	86.70	87.80		: -18.00	-12.03 -10.00	-10.00	-10.00 -2.05		11	0.0 !	0.0	
						-12.03	10.00	-10.00	-2.08	~/. •/		0.01	0.0	0.0

0000Z

HOT FT MSL	1%	N PERCE		90%	55%	1 1 1%	DND:	H PERCENT	FILES BOX	99X	11	PERCENT DUCT !	OCCURR SRLR I	SUB 1
SFC-800 500-1000 1000-1800 1800-2000 2000-2800 2800-3000 3000-3500 4000-4600	1324.08 1312.12 1305.19 1295.65 1281.72 1269.99 1258.06 1247.33 1242.03	332.89 327.58 321.50 314.00 304.89 284.88 285.25 275.88	357,38 37 349,69 38 341,38 36 332,08 34 321,38 33 711,25 32 302,89 31 295,19 30	0.25 1 1.60 1 2.69 3 3.50 3 3.36 3 5.25 3	\$77.96 \$88.50 \$59.89 \$50.50 \$40.75 \$31.15 \$23.15 \$15.96	1-235.41 1-122.91 1-161.65 1-222.27 1-285.58 1-228.47 1-287.56 1-287.56	-113.15 -72.91 -77.08 -83.33 -100.00 -93.76 -97.50 -79.18 -63.33	-59.33 -47.91 -47.91 -50.00 -64.16 -54.16 -54.16 -50.00 -47.81	~10.42 ~27.08 ~27.08 ~29.18 ~29.18 ~31.25 ~29.18 ~27.08 ~22.91	210.84 -18.86 -18.75 -12.50 -6.25 7.71 22.91 31.25		9.1 : 0.8 : 2.4 : 4.8 : 8.8 : 4.6 : 6.7 : 6.0 :	25.2 1 2.5 (5.1 (6.4) 11.5 (10.0) 7.6 (6.1)	0.3 { 0.3 ! 0.4 ! 1.0 ! 1.7 ! 2.1 : 3.6 !
4500-5000 5000-8000 6000-7000 7000-8000 8000-10000	:237.10 :227.61 :220.39 :213.00 !205.30 !186.35	245.40 228.10 217.20 208.50 200.60	275.69 29 259.19 27 240.50 26 223.60 25	0.08 8.08 3.75 0.90	299.17 204.50 272.38 280.19	1-237.87 1-283.31 1-280.00 1-315.18 1-263.25 1-228.89	-93.33 -97.91 -96.74 -93.36 -73.43 -63.41	-43.75 -39.59 -38.59 -30.07 -28.69	-18.68 -18.68 -18.68 -13.28 -10.03	61.51 53.96 43.75 66.66 53.38 63.28	11	8.7 : 13.1 : 14.6 : 14.8 : 12.0 : 8.8 :	10.4 19.1 19.3 17.9 14.7 10.3	9.1 10.4 9.6 11.5 12.2 11.2
10000-11000 11000-12000 12000-13000 13000-14000	1184.90 1178.80 1172.40	193.60 188.60 180.30 173.90 168.10	191.80 21 184.60 20 177.90 18	2.80 0.60 9.60	225.80	!-193.36 !-183.25 !-126.69 !-89.97 :-83.33	-56.84 -43.36 -36.71 -33.33 -26.69	-23.30 -23.30 -20.05 -20.05 -19.92	-13.41 -13.41 -16.68 -16.66 -16.66	33,33 33,33 23,30 13,41 3,26	::	7.6 4.4 3.3 1.9 1.2	9.0 5.8 9.1 2.5 2.5	7.8 1
15000-16000 16000-17000 17000-16000 16000-16000	1158.05 :150.90 :145.20	162.60 187.40 152.20 146.70 141.60	180.60 18 188.00 16 148.70 18	6.30 0.10 4.20	185.90 179.00 171.10 183.78 156.25	: -53,25 : -50,86 : -47,86 : -44,08 : -32,03	-23.30 -22.03 -20.00 -20.00 -20.00	-18.86 -17.89 -18.01 -18.01 -16.01	-18.68 -14.08 -13.88 -13.98 -13.98	6.64 1.99 -3.96 -3.90 -3.98	11	0.8 0.7 0.2 0.2 0.0	0.8 : 0.6 : 0.4 ! 0.9 !	2.6
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	:129.90 :125.10 :118.90	137.20 132.70 120.50 123.90 119.80	130.00 13 130.00 13 120.30 12	9.20 3.60 8.90	150.60 144.30 139.00 133.00 127.80	-33.88 -27.96 -24.00 -23.67 -22.03	-18.04 -17.96 -18.01 -18.01 -19.01	-15.94 -13.80 -13.90 -13.90 -13.98	-13.98 -13.96 -12.03 -11.95 -11.95	-5.84 -7.87 -7.87 -7.97 -8.05	11	0.1 0.0 0.1 0.0	0.3 1	
25000-28000 26000-27000 27000-26000 28000-28000 28000-30000	1107.00	118.90 112.10 109.00 104.40 101.00	114.20 11 110.20 11 108.40 10	6.20 2.30 8.10	123.00 118.50 114.10 109.80	1 -20.00 1 -10.04 1 -17.98 1 -16.01 1 -15.94	-14.04 -13.98 -13.99 -12.03 -12.03	-12.03 -12.03 -12.03 -11.95 -11.95	-11.95 -11.95 -10.00 -10.00	-8.05 -10.00 -8.05 -8.05 -10.00	11	0.0	0.0 1	0.4 i
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	88.30 84.70 281.50	97.80 94.50 90.80 97.60 85.30	96.30 9 92.70 9 99.20 9	1.30 7.90 4.50 0.70 7.80	102.40 98.90 95.40 91.50 88.40	: -16.01 : -17.98 : -20.00 : -17.96 : -13.98	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -2.05	-7.97 -7.97 -7.97 -7.97 -7.97	;	0.0 : 0.0 : 0.0 : 0.0 :	0.0 1	0.0 t 0.0 t 0.0 t 0.0 t

1200Z FIGURE B-3-3-C

THICKNESS STATISTICS

																SUB		
1					:					:								
	XFRQ	10%	50%	90%	! •	XFRQ	10%	80%	90%	1	MFRQ	10%	50%	90%	XPI	Q 10%	90%	90%
1	7.4	89	285	384	:	23.8	98	384	482	1	99.2	1565	4419	11136	1 7.	2 187	384	482
ŧ	0.0				ł	0.7	98	787	1280	1	1.3	1043	5610	34680	. 0.	1 394	394	394
ı	1.2	394	492	787	1	2.6	217	787	1299	1	0.7	591	4036		. 0.	3 298	298	689 :
1	4.4	197	492	688		7.4	98	394	984								394	394
1	4.6	118	394	591	1	7.8	9.8	394	1004	1	7.9	1083		7391			689	984
:	5.7	217	492	689	:	8.1	98	492	984	ı	9.8	600		5895	1 0.	8 492	689	2658 :
:	4.4	197	394	699	:	9.6	98	197	787	t	8.3	236	3002	17579			394	1378
ı	8.7	197	298	671	:	5.5	98	295	778	!	7.9	98	1969	31313			889	1289 :
t	3.9	197	394	492	t .	8.4	9.0	295	886	1	10.5	98	2362	30841			492	1368
1	8.4	9.0	295	871	1	8.7	98	295	658	1	15.8	98	3842	30290	1 6.	2 98	295	856
1	11.6	197	298	492		16.9	98	295	689	1	26.8	98	3246	29857	9.	0 128	591	1181 :
;	10.3	197	295	492	1	18.2	99	298	689	1	19.8	98	2805	28705		0 98	492	1122
:	11.9	197	295	492	1	14.3	9.8	197	591	:	23.9	98	3101	27839	1 9.	3 197	591	1378
ı	9.5	98	295	394	ı	11.8	9.0	197	492	:	21.8	98	2707	26805			492	1201 :
:	7.9	98	295	394	1	8.2	90	197	394	t	12.9	98	8957	25821	: 6.	9 138	492	1083 :
1	5.5	98	197	295		7.4	98	197	394	1	17.5	98	3642	24935	. 8.	a 98	492	1043 :
:	5.8	98	197	295	1	7.5	98	197	394	;	12.7	2.0	10367	23784				1043
1	3.0	99	197	295	:	5.4	98	197	295	;	10.8	9.0	5479	22770			492	1083
ı	1.4	99	148	246	ı	2.8	9.8	98	276	ţ	7.0	98	18521	21884	1 4.	0 99	394	1004 :
;	1.0	9.0	90	276	1	1.8	98	148	295	:	3.9	98	13026	20752	1 1.	9 98	394	787 :
1	0.9	98	98	197	T	2.1	98	98	266	-	4.1	285	19177	19767	2.	8 98	492	919
ŧ	0.2	184	164	164	1	0.9	98	185	328	1	3.1	978	18373	10931			574	820 :
1	0.2	164	164	164	t	0.2	164	184	164	t	2.6	1345	17225	17661	1 1.	8 164	492	984 :
1	0.7	184	164	164	t	1.7	164	164	184	:	4.3	1558	16076	18733			492	804
t	0.0				1	0.1	164	164	164	1	1.7	1624	15256	18748			328	820 :
		1 0.0 1 4.4 1 4.8 1 5.7 1 4.4 1 5.7 1 6.7 1 7.7 1 1.8 1	I THK PE I NFRQ 10N 1 7.4 89 1 0.0 1 1.2 394 1 4.4 197 1 4.6 116 1 5.7 217 1 4.6 116 1 5.7 217 1 4.4 197 1 0.4 99 1 11.6 197 1 0.4 99 1 11.6 197 1 11.9 197 1 11.9 197 1 11.9 198 1 7.9 98 1 5.5 98 1 3.0 99 1 1.4 99 1 1.0 98 1 0.2 184 1 0.2 184 1 0.7 184	NFRQ	THE PERCEMPILES NFRQ	TEK PERCENTILES NFRQ	MFRQ	THE PERCENTILES : THE PERCENTILES : THE PERCENTILES : NFRQ 10X 50X 90X NFRQ 10X	NFRQ	MFRQ	MFRQ	NFRQ	NFRQ	NFRQ	NFRQ	MFRQ	THIX PERCENTILES : THIX PERCENTI	THE PERCENTILES : THE PERCENTI

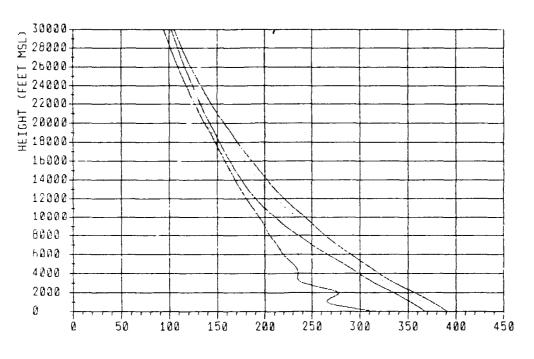
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BASE			DUCT	S RCENTIL	7 0 1		SRLI THE PI	RS ERCENTII				NORM THK P	al Ercenti	. = .		SUB		
PT MSL	i	XFRQ	10%	90%	90%	*FRQ	10%	50%	90x	i	XFRQ	10%	ERCENTI 20%	90%	MFRQ	TRK PI	ERCENTII 50%	90%
SFC-800	1	9.1	89	187	384	25.2	90	265	482	- •	98.9	1181	4921	11908 :	19.9	69	187	384
B00-1000	:	0.4	295	492	886	0.8	98	591	1181		2.1	98	5610	34581 :	0.0			4
1000-1500	1	2.0		394	600 1	3.5	98	787	1378	:	1.4	1033	5709	33941 :	0.2	984	1033	1083 :
1500-2000	1	3.1	98	394	689 1	4.9	98	394	1083	:	3.1	1083	4823	33302 :	0.2	295	443	591 :
2000-2800	1	3.9	197	295	492 ;	0.8	96	295	984	:	7.1	935	4331	8759 :	0.8	197	394	689 :
2800-3000	1	3.9	98	295	689 :	5.0	98	394	889	ŧ	8.5	9 0	2658	8858 :	1.2	98	443	1821 :
3000-3500	- 1	3.1	295	394	899 1	3,3	98	246	291	t	5.6	157	2362	31924 (1.2	197	591	1555 :
3500-4000	- 1	4.3	197	295	492	4.0	98	98	905	;	8.8	118	1772	31411 :	2.3	295	886	1378 :
4000-4800	1	3.6	197	394	551 (6.2	98	295	600	;	5.8	98	2264	31038 :	3.5	90	591	945 :
4800-8000	: -•-	5.3	98 	295	492 :	8.1	98	394	787		12.9	98	2658	30349 :	4.7	167	394	1014 :
8000-8000	i	10.3	197	394	492	14.2	98	295	889	1	23.4	99	3937	30053	7.3	98	492	1181 :
6000-7000	ŧ	12.6	98	295	492 1	15.2	98	197	591	:	20.9	98	2756	28872 :	e .1	98	492	1437 :
7000-8000	ı	12.0	9.0	295	492	15.2	98	197	492	;	22.9	98	4972	27888 ;	8.7	98	394	1053 ;
8000-9000	1	10.1	98	295	394	12.2	98	197	591		21.1	98	4036	26804 :	8.8	138	492	1240 :
9000-10000	- 1	7.9	98	296	394	8.8	98	197	394	1	16.1	98	6348	25919	6.7	96	394	1004 :
10000-11000	1	0.3	98	197	364	8.0	98	197	394	; -	16.7	394	19243	24935	6.3	138	492	1378 :
11000-12000	:	4.0	9.6	197	394 ;	4.9	98	197	394	;	10.3	187	9416	23882	9.5	98	591	935
12000-13000	- 7	3.0	9.0	197	298 1	4.9	98	197	295	ŧ	9.5	197	22179	22888 1	4.0	98	492	984
13000-14000	t	1.8	98	197	316 :	2.2	99	197	344	1	6.6	187	7579	21694 :	2.6	177	591	925 :
14000-15000	1	1.1		197	295 1	2.2	98	98	268	1	4.5	610	20309	20742 1	2.0	98	591	1280
18000-16000		0.7	90	98	197 ;	0.9	98	98	298	• • -	2.8	108	13616	19610 1	2.0	98	394	978 :
16000-17000	:	0.7	131	164	326	0.6	98	164	184	1	3.1	428	18127	18832	1.7	289	492	869
17000-16000	ſ	0.2	164	164	164	0.4	164	164	320		2.3	1378	17225	17632	1.3	164	328	787
18000-18000		0.2	164	164	184 :	0.9	164	164	164	;	2.6	886	15912	16404	1.7	164	492	656
19000-20000	ŧ	0.0			- 1	0.1	164	164	184	1	0.8	164	15092	15748 :	1.6	164	328	656
																		-50

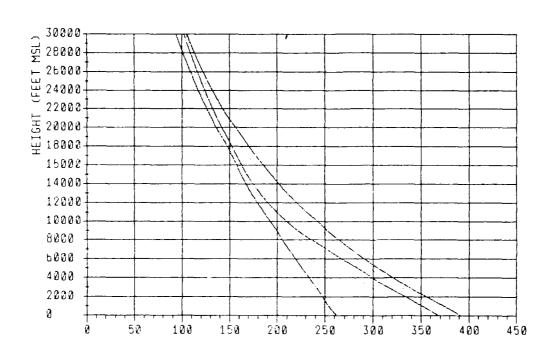
1200Z

FIGURE B-3-3-D B-48

N PERCENTILES



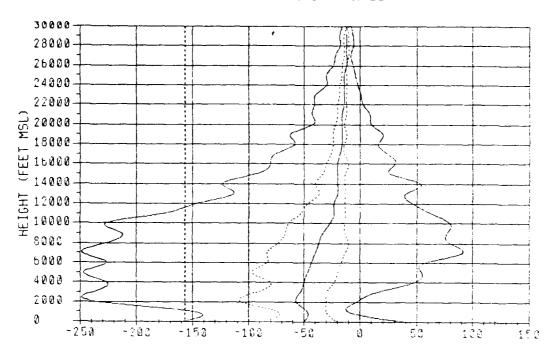
N (N-Units) 0000Z



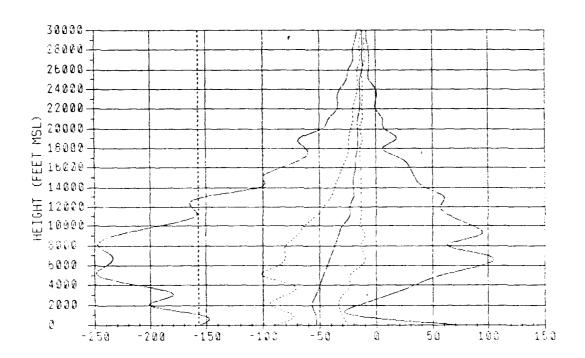
N (N-Units) 1200Z

FIGURE B-3-4-A B-49

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-3-4-B B-50

OWEN ROBERTS

DRY-WET TRANSITION

FT MSL	1 1 1 1	N PERCI	ENTILES SOX	90%	99X	1 %	DND:	H PERCENT	ILES BOX	55%	PERCENT	OCCURR BRLR	ENCE :
SFC-800 900-1000 1000-1300 1500-2000 2000-2000 3500-3000 3500-3500 4000-4500 4500-8000	325.70 316.69 307.91 285.23 281.97 268.83 251.02 248.03 243.20 238.40	334.25 348.67 340.19 332.50 322.25 308.02 294.07 283.00 276.36 267.19	371,75 363.50 356.69 348,88 339.38 327.88 316.19 308.56 288.69 290.50	383.19 374.67 368.09 360.19 351.19 340.88 330.20 521.38 313.19 304.92	383.87 577.36 388.38 388.19 348.74 337.97 329.37	1-212.39 1-110.04 1-210.25 1-232.96 1-293.69 1-301.79 1-284.69 1-251.84 1-276.30	-62.60 -72.91 -104.18 -120.83 -122.91	-39.08 -41.88 -40.83 -58.25 -62.50 -58.33 -73.77 -50.00	-11.87 -22.81 -25.00 -27.08 -29.40 -29.16 -25.00 -18.75	76.41 -8.33 -6.33 -6.33 -2.08 14.68 16.44 18.44 18.44 172.18 172.18 172.18 172.18 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18.44 18	1.3 / 1.3.7 / 1.4.3 / 1.9.0 / 1.0.0 / 1.0	22.9 1.7 0.0 13.0 18.1 20.3 13.6 6.6 9.3 12.5	1.2 1.2 1.2 1.5 2.5 3.6 7.5 8.7
5000 - 8000 8000 - 7000 7000 - 8000 8000 - 9000 9000 - 10000	1229.10 1220.60 1213.00 1208.59 1198.60	248.34 229.50 218.60 209.80 201.70	277.58 261.19 246.20 230.90 217.60	293.88 279.00 286.25 253.70 242.00	298.53 275.72 293.75	1-249.83 1-238.71 1-210.02 1-200.21 1-189.97	-100.00 -87.50 -73.42 -70.05 -83.28	-41.88 -38.71	-18.75 -18.88 -13.28 -13.26 -8.64	37.50 58.23 60.02 60.02 68.28	1 11.5 1 6.8 1 1 7.9 i	19.8 15.7 13.6 12.9 10.7	10.2 / 11.0 / 11.6 / 14.3 / 14.1 /
1000-11000 11000-12000 12000-13000 13000-14000 14000-15000	:185.30 :179.10 :172.50	194.60 187.60 181.10 174.50 188.50	207.30 197.50 188.90 180.90 173.40	231.10 218.60 209.20 200.40 191.40	230.80 219.10 208.70	1-178.60 1-139.72 1-136.59 1-113.41 1-103.36	-60.02 -50.00 -43.36 -39.97 -36.59	-23.30 -20.05 -20.05	-13,28 -13,28 -13,28 -13,28 -13,41	73.38 63.38 48.61 39.71 126.69	1 4.2 1 3.6 1 2.8 1	11.6 : 8.2 : 8.4 : 8.0 : 3.8 :	16.2 14.0 9.1 11.0 9.2
15000-18000 18000-17000 17000-18000 18000-18000	118.01 1150.90 1144.70	163.00 187.60 152.20 146.60 141.60	167.10 181.50 158.60 150.20 144.60	162.30 174.60 166.70 188.50 153.40	183.80 176.03 188.42	-46.59 -69.82 -63.98 -57.86 1-44.00	-33.33 -30.00 -26.01 -24.06 -23.98	-10.04 -17.96 -10.01	-13,41 -13,98 -13,98 -12,03 -13,99	25,28 : 13.98 : 17.98 : 20.00 :	0.5 1	2.8 0.9 0.8 1.6 0.3	7.8 : 7.8 : 6.8 : 7.0 : 2.2 :
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1129.40 1124.78 1119.80	137.00 132.50 128.20 123.60 119.40	139.90 135.30 130.90 128.50 122.10	147.20 141.70 136.30 130.80 126.10	147.83 141.70 138.90	-40,56 -38.04 -34.77 -30.00 -30.83	-21.95 -20.00 -20.00 -17.96 -17.86	-14.08 -13.86 -13.98	-12.03 -12.03 -11.95 -11.95 -11.95	0.94 2.03 -3.88 -1.95 -2.03	0.01	0.3 1 0.0 1 0.6 1 0.0 1	3.5 3.7 1.3 2.4 2.9
25000-26000 28000-27000 27000-28000 28000-28000 28000-30000	1108.80 1102.50	115.50 111.80 107.70 104.10 100.80	118,00 114,10 110,10 106,20 102,60	121.30 117.00 112.60 108.30 104.70	119.80 115.10 110.20	i -28.93 : -22.03 : -18.04 : -17.96 : -17.28	-16.01 -16.01 -14.06 -13.86 -13.86	-12.03 -12.03 -12.03	-11.95 -11.95 -10.00 -10.00	-3.98 : -7.97 : -7.97 : -7.97 : -7.97 :	0.0 1	0.0 1	1.4 0.8 0.5 0.5 0.2
32000-33000	88.30 84.65 91.53	97.50 94.30 90.80 87.60 88.40	99.40 98.20 92.60 69.20 86.60	101.20 97.80 94.40 90.70 87.80	98.90 95.30 91.40	: -18.01 : -18.01 : -20.00 : -23.98 : -20.00	-12.03 -12.03 -12.03 -17.03 -10.00	~10.00 ~10.00	-10.00 -10.00 -10.00 -10.00 -2.00	-7.87 -7.87 -7.87 -7.87 -7.87	0.0 1	0.0 1	0.0 I 0.0 I 0.0 I 0.0 I

000**0Z**

HOT	i .	N PERC	ENTILES			į.	DND	H PERCEN	TILES		1:	PERCENT	OCCURE	ENCE
FT MSL	: 1%	10%	50%	90%	99%	1%	10%	50%	90%	99%	: 1	DUCT	SRLR :	SUB
SFC-500	326.87	357.88	378.19	386.88	394.92	:-201.28	-106.25	-58.25	6.94	197.54	11	7.3	21.2 :	28.4
800-1000	: 256.73	340.69	365.88	377.88	386.77	(-137.50	-79.16	-84.16	-31.25	-18.86	1:	0.7 1	4.0 :	0.5
1000-1500	: 288.49	341.38	357.25	369.69	376.57	:-191,66	-83.33	-56.25	-33.33	-18.75	1.1	3.6 (8.0 I	0.2
1500-2000	:291.67	352.20	348.00	358.87		:-221.33		-58.33	-33,33	-20.83	: 1	6.2 1	12.9 :	0.5
2000-2500	1289.03	321.25	337.56	349.10		1-289.81		-80.41	-37.50	-20,05	1 1	6.8	14.4	0.8
2500-3000	:261.18	308.57	326.25	338.56		1-248.10		-60.41	-33.33	31.44	1:	4.8	14.2	3.3
3000-3500	:249.19	298.00	318.78	328.00		:-200.37	-91.66	-56.25	-29.48	48.83	1 1	3.7	8.2	
3500-4000 4000-4500	1248.66	288.50 279.06	307.19	319.56 311.50		:-282.41	-03.33 -01.25	-54.16 -50.00	-26.69 -22.91	39.56	11	4.0 (7.8 1	4.2 7.5
4500-5000	237.22	270.14	291.50	303.75		1-252.08	-91.86	-50.00	-20.05	70.29	11	8.1	13.3	9.3
			751.50			+			-20.00	70.25	-++			
3000-8000	:230.52	281.50	278.00	293.19	302.88	1-250.00	-98.74	-47.91	-20.83	50.00	1.3	12.1 :	19.5	8.7
6000-7000	:221.02	232.80	201.19	278.19	287.21	1-252.08	-93.78	-43.75	-14.58	83.23	1:	12.6 :	17.8 :	11.4
7000-8000	1213.30	219.30	248.00	265.38		1-231.26	-89.97	-39.58	-13.28	88.74	11	10.1 :	16.8	11.2
8000-9000	1205.60	209.70	230.60	252.70		1-227.90	-73.30	~33.33	-13.28	53.30	1:	10.1	13.7	12.5
9000-10000	198.62	201.41	218.40	239.90	249.38	-193.33	-80.02	-29.95	-8.84	63.30	1.1	7.5 :	10.4	13.9
10000-11000	:192.20	194.40	205.60	228.90	239.50	;-189.97	-60.02	-23.44	-13.28	48.72	-++	7.2 :	12.0	15.0
11000-12000		187.30	198.20	218.10		1-146.61	-46.61	-23.30	-13.28	58.64	; ;	4.7	6.4	
12000-13000		180.80	187.60	207.89		1-123.30	-46.61	-20.05	-13.28	30.08	;;	2.3	6.5	
13000-14000	1172.50	174.30	179.60	198.50		-83.33	-36.71	-20.08	-13,41	23,30	11	1.9	2.8	
14000-15000	:168.72	168.40	172.80	189.40	189.10	1 -83.33	-33.33	-20.05	-13.28	10.68	11	1.2 1	2.8	5.9
15000-16000	1181 70	162.80	188.80	181.40	101 20	-09.92	~29.95	-19.92	-13.28	16.66	-++	1.2 !	1.9	6.9
18000-17000		157.55	161.40	174.40		-62.09	-27.96	-17.86	-13.20	18.06	11	0.0	0.8	
17000-16000		152,23	158.70	187.50		-80.00	-26.01	-16.01	-12.03	16.01		0.0	0.8	
18000-19000		148.70	190.40	160.80	197.95	-58.00	-28.93	-18.01	-12.03	10.00	11	1.6	1.1	
19000-20000	1139.84	141.70	144.70	153.80		-43.98	-23.90	-18.01	-12.03	7.97	11	0.2 1	0.3	
						*					-++			
20000-21000 21000-22000		137.10	140.00	147.90		-42.03	-22.03	~16.01 ~14.06	-12.03 -12.03	8.02 0.00	1:	0.0 !	0.0 1	
22000-23000		129.30	131.10	138.21		1 -34,06	-20.00	-13.98	-11.95	0.00	11	0.0 1	0.0	
23000-24000		123.70	128.60	131.00		-32.03	-17.94	-13.96	-11.98	0.00	ii	0.0	0.0	
24000-25000		119.60	122.20	125.90	129.50	27.30	-17.96	-13.98	-11.95	-0.68	- i i	0.0	0.0	
	- •										-++			
25000-26000		115.70	118.20	121.60	124.60	: -22.00	-10.01	-13.98	-11.95	-6.02	1.1	0.0 ;	0.0	1.0
26000-27000		112.00	114.30	117.20	119.90	-22.00	-10.01	~12.03	-11.95	-6.02	1.1	0.0 1	0.0	
27000-28000		107.80	110.30	112.90		1 -20.00	-14.08	-12.03	-10.00	-7.97	1.1	0.0	0.0 1	0.3
26000-29000		104.20	106.40	100.40		1 -18.04	-13.98	-12.03	-10.00	-7.97	11	0.0	0.0	0.2
29000-30000	1 95.30	100,90	102.00	104.70	100.10	: -17.96	-13.86	-11.95	-10.00	-7.87	-11	0.0 ;	0.0	0.8
30000-31000	91.90	97.60	99.50	101.30	102.40	1 -18.01	-12,03	-10.00	-10.00	-7.97	11	0.0 1	0.0	0.0
31000-32000	88.51	94.40	98.20	97.90		: -10.01	-12.03	-10.00	-10.00	-7.97	11	0.0	0.0 i	
32000-33000	: 84.90	90.80	92.60	94.40	95.30	-22.03	-12.03	-10.00	-10.00	-7.97	1.1	0.0 :	0.0	
33000-34000		87.60	99.10	90.60		: -23.92	-12.03	-10.00	-10.00	-7.87	1.1	0.0 1	0.0 1	0.0
34000-35000	1 79.60	85.40	88.60	87.80	88.20	-18.60	-10.00	-10.00	-8.08	~7.97	1.1	0.0 :	0.0 1	0.0

1200Z FIGURE B-3-4-C

OWEN ROBERTS

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE			DUC THE P	ts Ercentili	••		BRLI	rs Ercentii	••		NORM THE P	al Ercenti			SUB	ERCENTI	
PT MSL	;	YFRQ	10%	80%	90%	XFRQ	10%	80%	90x :	MFRQ	10%	50%	90%	MFRQ	10%	50%	90%
SFC-500	· • -	8.8	187	295	384	: 22.9	89	285	384	99.8	1368	3730	17556 ;	14.5	187	288	384
800-1000	2	1.3	197	394	986	: 0.8	98	394	1161 :	1.2	98	3937	34501 :	0.2	394	394	394
1000-1500	ı	2.8	98	492	807	1 4.3	98	787	1280 :	1.3	98	4827	10433 :	0.7	295	541	1476
1800-2000	1	4.2	187	394	630	9.1	98	541	1211	4.0	1280	3445	8169 :	0.5	197	689	1476
1000-2500	1	6.0	187	384	689	: 10.8	9.8	443	1191 ;	9.8	541	3842	15030 :	0.8	295	591	1969
3800-3000	1	6.8	197	492	787	: 10.5	98	394	886 :	13.3	98	2953	10974	1.5	197	591	984
8000-3500	1	4.0	197	394	837	: 4.8	98	443	984	12.0	98	2953	31825 :	1.7	98	295	1398
B800-4000	ţ	2.6	94	394	827	1 4.2	96	384	728	8.0	88	2854	22294 :	5.0	197	591	1083
4000-4500	1	4.2	167	394	830	1 5.1	99	295	591 :	8.1	98	2116	30841 ;	3.2	88	492	787
4800-8000		8.5	187	394	869	: 9.7	98	295	748	15.8	197	4232	30250 :	5.7	98	295	1024
8000-8000	1	9.1	197	394	591	1 19.3	96	295	689	21.1	98	4626	29857 :	8.4	128	640	984
8000-7000	1	8.8	108	295	492	: 11.8	98	295	689	20.9	197	3101	28774 1	7.6	98	541	1083
7000-8000	1	7.0	98	295	492	1 10.4	96	296	361 :	16.6	98	3101	27622 :	8.1	98	482	1024
8000-8000	1	6.2	138	295	394	10.1	96	197	394 1	18.8	98	2018	26838 :	10.5	98	492	955
9000-10000	!	8.2	9.0	295	394	; 9.1	98	197	394	16.2	98	1575	25723	9.9	98	492	965
0000-11000	1	8.5	98	197	295	9.6	98	197	394	20.3	98	3199	24935	9.6	98	443	1181
1000-12000	:	3.6	98	197	394	7.8	9.8	197	394	15.5	98	1969	23783 1	9.8	98	394	1083
2000-13000	1	2.8	96	197	295	: 5.7	98	197	384	12.1	96	8728	22770 1	6.0	98	394	1083
3000-14000	1	2.8	9.8	197	295	4.3	98	98	384	10.9	9.8	1870	21392 :	8.9	98	394	1024
4000-18000	1	2.3	98	98	236	3.9	98	146	325	10.1	9.8	3789	20742	8.2	197	394	1083
5000-16000		0.9	98	98	197	2.5	98	197	295	6.8	492	8087	19719 :	5.0	298	591	843
8000-17000	1	0.0	98	9.6	164	: 0.9	131	164	164	6.4	125	5413	18701 :	5.1	148	492	984
7000-18000	1	0.2	164	144	184	0.6	164	246	328	4.8	656	17225	17717 :	4.5	164	328	656
#000-19000	;	1.1	1 0 4	164	164	1.6	164	164	312	9.2	1378	15912	16569 :	5.4	164	328	820
9000-20000	1	0.2	164	164	164	1 0.3	164	246	328	2.7	492	15256	15748 :	1.7	164	492	95 i

0000Z

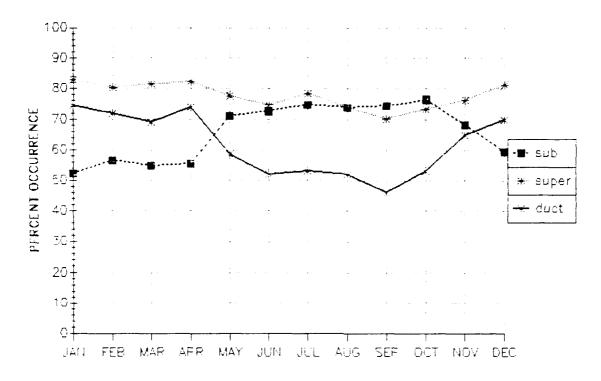
BASE	t			RCENTIL				RCENTII				ERCENTI	LES :		SUB THK PI	erc en Til	LES
PT MSL		XFRQ	10%	50%	90% ;	XFRQ	10%	50%	90%	XFRQ	10%	50%	90% :	XFRQ	10%	50%	90%
SFC-800	1	7.3	89	197	384 :	21.2	96	265	569	99.0	1171	4724	14188	28.4	89	197	384
500-1000	:	0.5	295	492	787 :	1.5	98	591	1378 :	1.3	90	4134	9842	0.0			•••
1000-1500	1	3.3	295	443	689 :	3.8	98	787	1280 :	2.5	2106	5807	33912 :	0.3	88	295	492
1200-3000	- 1	3.7	128	394	591 :	9.0	98	591	1122 :	4.2	709	4134	13609	0.3	295	295	295
2000-2800	1	4.2	197	394	591 1	6.7	98	591	1073 :	8.2	394	4163	32809	0.8	295	492	984
2500-3000	- 1	3.2	197	394	689 :	8.2	98	443	1014 :	11.2	197	2264	7579 :	2.8	295	591	1142
1000-1800	;	2.2	138	394	680 :	3.3	98	197	1161 :	7.0	423	2559	14929 :	1.5	295	492	1575
3800-4000	1	3.2	197	394	689	2.8	98	197	709 :	4.7	384	3839	31830	2.3	246	640	1329
4000-4500	1	3.3	99	394	591 :	8.3	98	492	945 :	6.0	98	1673	10263 :	8.2	116	591	866
4500-5000	1	6.2	98	295	492 1	9.8	88	197	591 :	16.5	197	4380	30250 :	4.4	197	443	1014
5000-8000		8.8	197	394	492 :	14.5	98	295	689 :	21.5	98	3297	29758	5.9	98	492	1360
8000-7000	•	10.7	98	295	492 1	13.6	98	295	591 ;	19.0	96	3248	28774 :	8.7	157	492	1220
7000-8000	;	7.8	98	295	492 (13.6	90	295	591 :	21.2	98	2658	27790 :	6.9	167	541	1083
8000-9000	1	8.1	98	295	394 (11.0	96	197	492 :	18.3	96	2165	26805	9.0	98	394	1083
9000-10000	1	5.8	98	197	394	8.9	98	197	492 :	17.6	98	1378	25683	10.4	98	394	787
10000-11000	1	0.5	98	197	354	11.8	98	197	394 :	22.7	96	5069	24935	9.0	96	394	955
11000-12000	:	4.5	98	197	295 1	5.5	98	197	295	11.5	98	4380	23784	6.9	98	591	1102
12000-13000	:	2.0	98	197	295 1	5.8	98	197	308	11.2	118	4036	22651	8.0	138	295	984
13000-14000	1	1.7	96	197	298 1	2.3	98	98	278 :	8.7	98	5200	21785	5.8	98	492	905
14000-16000	- 1	0.	98	98	295 1	2.6	9.9	98	197 :	8.9	9.8	3084	20526	3.9	9.6	394	846
18000-18000	1	1.2	90	98	98 1	1.9	98	98	197 ;	8.9	98	6069	19679 :	5.5	98	394	883
16000-17000	1	0.0				0.8	131	164	326	5.8	164	5577	18793	5.6	164	492	984
17000-18000	- 1	0.0			:	0.8	164	164	164	5.6	184	7084	17891	4.0	295	492	853
18000-18000	. :	1.6	164	164	184 :	1.1	164	164	164 :	7.6	919	16076	19733	5.3	164	328	820
19000-20000		0.2	164	164	164	0.3	184	184	164	3.9	492	14928	18748	3.4	164	410	935

1200Z

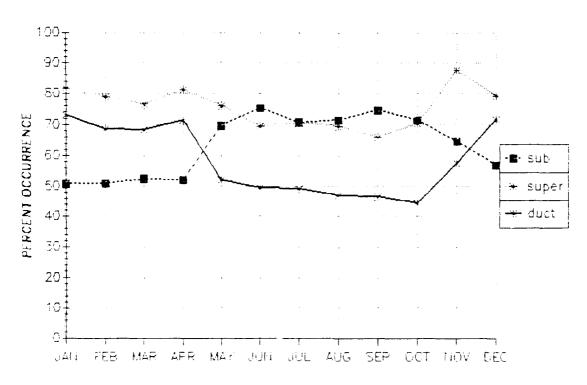
FIGURE B-3-4-D

DWEN ROBERTS MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



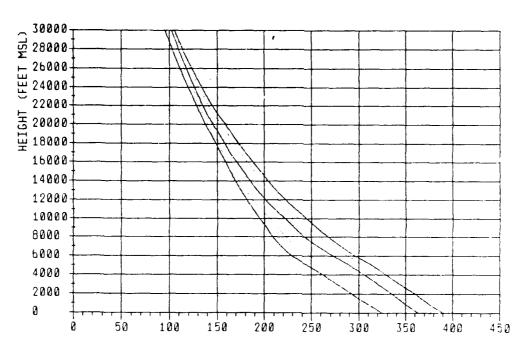
0000Z



1200Z

FIGURE B-3-5 B-53

N PERCENTILES



N (N-Units) 0000Z

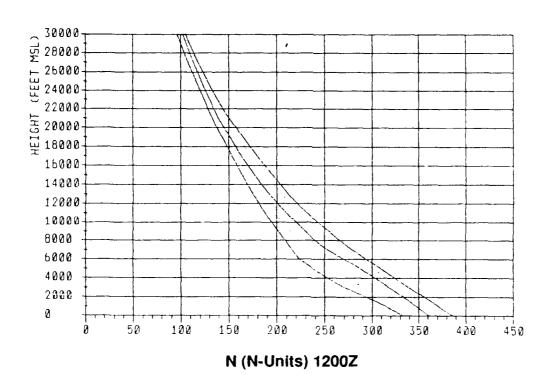
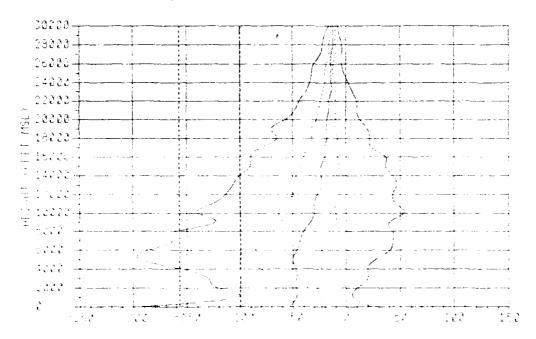


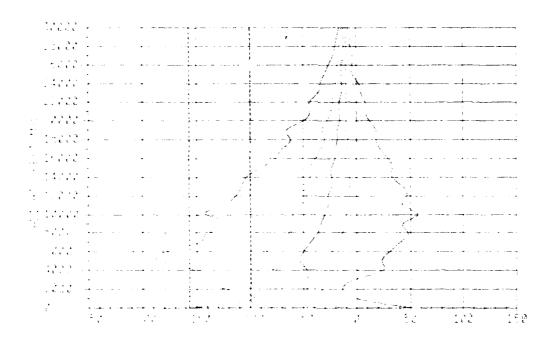
FIGURE B-4-1-A

NORMAN MANLEY WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z FIGURE B-4-1-B B-55

NORMAN MANLEY

WET SEASON

HOT FT MBL	1%	M PERCENTILES	50%	55%	1%	DND	H PERCENTILE:	3 2% 99%	:: PERC	ENT OCCUR	RENCE :
#FC-800 300-1000 1000-1000 1000-2000 2000-2000 2000-3000 3000-3000 3000-4000 4010-4600 4500-8000	:333.78 :320.66 :312.84 :303.74 :286.00 278.78 :271.00 :262.84 :264.20	383.22 370.00 342.69 380.25 334.38 342.66 326.08 345.69 310.68 338.68 310.68 338.68 310.68 331.08 302.58 323.39 285.50 116.39 287.67 300.75 280.22 301.06	383 78 373.50 387.19 360.75 351.50 345.19 336.75 328.86 321.38 314.25	383.80 378.89 369.40 382.20 384.19 344.85 146.69 329.20	1-233.33 1-120.83 1-104.18 1-106.25 1-116.86 1-129.18 1-127.3 1-133.75 1-141.86 1-187.50	-135.77 -75.00 -70.83 -86.66 -86.66 -72.91 -72.91 -77.08 -79.18 -83.33	-82.50 -18 -50.00 -23 -47.91 -25 -47.91 -25 -45.83 -2. -47.91 -27 -47.91 -25 -47.91 -25	.30 4.17 .00 4.17 .00 8.28 .08 8.33 .08 10.42 .00 20.83 .00 18.66	11.6 11.0.6 11.0.3 11.0.3 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 11.1.1 1	3.7 1.7 2.0 2.0 2.0 2.9 3.8 3.8	1.7: 1.7: 1.8: 2.0: 2.4: 3.4: 3.4: 3.7: 5.5:
5000 - 6000 6000 - 7000 7000 - 8000 6000 - 8000 8000 - 10000	:242.50 :228.34 :218.10 :208.30 :200.45	264.00 268.00 248.05 271.25 232.80 255.80 222.00 241.30 212.70 229.30	302,56 288,31 272,25 258,38 245,00	294.44 280.25 267.00	-187.50 -183.33 -160.41 -183.38	-91.88 -83.33 -76.69 -86.86 -36.77	-50.00 -23 -48.81 -23 -43.36 -20 -37.50 -18 -33.33 -10	.30 39.97 .05 43.75 .86 38 71	11 5.6 11 5.6 11 4.3 11 3.6	11.2	8.9
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1100.49 :180,10 :173.60	203.80 219.00 194.10 208.30 185.80 189.20 178.30 180.80 171.50 182.70	233.20 222.40 212.70 204.20 195.60	230.80 219.90 210.80	-138.72 -128.89 1-118.88 -110.02	-63.4. -53.38 -48.74 -48.61 -46.61	-23.30 -6		11 3.3 11 2.6 11 2.6 11 1.7	7.2 1: 5.4	13.5
15000 - 18000 18000 - 18000 17000 - 18000 18000 - 18000 18000 - 20000	1187.00	165.40 175.40 159.80 168.40 154.30 161.60 148.48 155.20 143.20 149.00	187,40 180,00 172,10 184,90 187,70	177.70	-89.97 -86.01 -74.08 -89.04	-43.36 -37.98 -33.98 -30.00 -30.00	-26.00 -7 -20.00 -7	.77 36.71 .97 32.52 .97 22.03 .05 23.98 .00 13.96	:: 1.2 11 0.7 1: 0.3 :: 1.1	1 2.5 1.6 1.4	
22000-23000	:131.70 :127.20 :122.40	139.40 142.40 133.90 139.30 129.80 133.50 124.80 123.50 120.60 423.80	151.20 145.10 139.50 133.70 129.10	155.60 149.00 143.10 137.10 130.80	-84.06 -41.98 -34.06	-19.01 -23.98 -22.03 -20.00 -20.00	-10,01 -10 -16,01 -10 -15,94 -1) -14,08 -10 -13,96 -10	.00 195 .00 6.02 .00 3.98	:: 0.1	: 0.1 : 0.1 : 0.2	8.9 5.7 5.3
26000-27000 27000-28000 28000-28000	;113.30 ;109.20 ;104.64 ;100.70 ; 97.00	118.60 119.50 112.60 118.40 108.60 111.10 104.80 107.00 101.50 103.40	123.20 118.50 113.90 109.30 105.30	110.80	-30.00 :-20.01 :-22.03 :-20.00 !-17.96	-18.04 -18.01 -18.01 -14.08 -13.99	-13.98 -11 -13.98 -10 -12.03 -10 -12.03 -10 -12.03 -10	.00 -3.98 .00 -4.08 .00 -8.02	:: 0.1 :: 0.0	0.1	1 1.0 : 1 1.0 : 1 2 : 1 0.1 :
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	1 93,40 - 00,08 : 80.61 - 93.10 - 00.80	98.20 99.90 94.90 96.50 91.30 92.90 88.00 89.40 95.90 86.80	101.70 98.20 94.60 90.60 67.70	99.10 95.50	-18.01 -22.03 -24.06 -27.96 -23.96	-12.03 -12.03 -12.03 -12.03 -10.00	-11.95 -10 -11.95 -10 -10.00 -10 -10.00 -10 -10.00 -7	.00 -7. 9 7	0.0	0.0	0.2 0.1 0.1 0.0

0000Z

HOT PT MBL	1%	H PERCENT:	LES ON SON	981	1 1%	DNI 10%	H PERCEN	TILES 90%	98%	1:	PERCENT DUCT :	OCCURRI	INCE :
SFC-500	340 50		.69 379.65	391.35	1-193.75	-102.08	-80.00	0.00	83.90	- • • -	4.7 1	16.9	18.0
500-1000 1009-1500	332.00		370.36		-1.3.29	-66.68	-45,83	-22.91	18.68	11	0.4	2.2	3.4
1500-1500	321.62 310.46		.30 363.42		-102.08	-86.66	-48,83	~25.00	4 17	::	0.2 :	1.3	1.7:
2000-2500	299.62		1.56 349.25		1-104.16	-68.68 -70.83	-48.83	-27.08	0.00	::	0.2:	1.0	1.2:
2500-3000	290.00		30 341.00		1-120.63	-70.83 -72.81	-45.83 -47.91	-31.25 -33.33	-12.50	7 1	0.9	2.2	0.4
1000-1500	274.95	308.00 321	. 25 332.38		-122.01	-72.91	-47.91	-33.33	-18 88 -7 34	11	0.8	3.4 :	0.4:
3500-4000	466.31		.69 324.75	332.19	1-143.75	-75.00	-47.91	-33.33	0.00		1.3	4.9	1.8
4000-4800	258.58		00 317.50		1-139.58	-77.08	-47.91	-31.25	16.86	: :	1.8	4.8	2.6
4500-5000	:251.00	282.75 296	.38 310.35	317.42	1-177.08	-63.33	-47.91	-29.10	22.91	11	3.7	10.6	4.8
5000-8000 6000-7000	230.70		75 299.25		: -175.00	-95.83	-52.08	-25.00	20.08	: 1	5.6;	17.2	3.5
7690-8000	224.00		.19 203.88 .80 289.50		1-172.91	-03.33	-47.91	-23.30	33.33	: :	5.0 :	12.4	6.1 :
8000 - 9000	207.60		1.90 285.30		1-140.10	-72.91 -60.02	-43.36	-19.92	36.59	: 1	2.2	9.9	7.4 :
9000-10000	200.00		.60 242.30		1-116.98	-53.38	-38.71 -33.33	-13.41 -10.03	46.74	::	2.9	7.9	9.6
	•	• • • • • • • • • • • •								 - + + ~	2.0 :	4.0	11.2:
11000-11000	193,20		.20 231.10		:-139.97	-60.02	-29.95	-10.03	50.00	::	3.2	7.6	15.1
12000-11000	180.10		'-90 220.80 -90 211.80		:-123.30	-50.00	-29.89	-10.03	43.23	: :	2.6 :	G 1	11.8
13000-14000	173.60		-10 203 10		-110.02	-48.74 -48.74	-26.56 -23.44	-0.5 -0.84	50.00	1 1	2.1	5.5 :	13.0
14000-19000	187.70		.00 194.60		-100.00	-43.30	-23 30	-6.77	40.10	1:	1.9	5.2:	14.6 :
15000-18000	162.30	165.40 174	.70 186.30	192.99	-88.71	-39.97				- • • -			:
16000-17000	157.00		.00 179.00		-77.96	-38.97 -36.71	-23.30 -20.02	-9.90 -10.00	30.07 24.88	: :	0.7	2.7:	12.7
17000-16000	151.80		.00 171.40		-84.00	-32.93	-20.00	-10.00	20.00		0.1:	1.9:	11.8 :
10000-19000	146.00		-8G 193.70		: -07.96	-30.00	-18.04	-8.05	21.95		0.9	1.2	11.4
10000-20000	141.10	143.30 149	150.30	161.40	-91.03	-30.00	-17.96	-10.00	10.00	::	2.0	0.5	8.3
20000-21000	130.40		.10 150.00		-50.17	-26.01	-16.01	-11.95	10.00	- • • ~ ; ;	0.1:	0.5 :	8.2
21000-22000 22000-23000	131.80	133 90 138			-43 03	-23.98	-19.01	-10.00	8.05		0.1	0.1	6.7
22000-24000	127,48 122,50	129.50 133 124 70 128	.20 138.80 .40 132.50		-43.98	-22.03	~15.94	-10.00	6.02	; ;	0.2 :	0.1:	4.9
24000-28000	117.80	120.50 123			-32.03 -33.90	-20.00 -20.00	-13.98	-10.00	1.95	: :	0.0	0.2 :	3.9
	• • • • • • •				33.90	-20.00	-13.98	-10.00	0.00		0.	0.2 :	3.6
28000-28000	113.50		30 122.70		- 27.96	-18.04	-13.98	-11.95	-3.98	11	0.0	0.0	0.9:
28000-27000 27000-28000	109.30	112.60 115			-23.98	-16.01	-13.98	-10.00	-3.98	: :	0.0:	0.0	1.4
20000-2000	100 74	109 60 111			-21.95	-16.01	-12.03	-10.00	-5.94	::	0.0 :	0.0	0.8
2000-1000	97 10	105.00 108 101.50 103			-18.04 : -17.98	-14.08	-12.03	-10.00	-8.02	; ;	0.1	o. :	0.7 :
	•				· · · · · · · · · · · · · · · · · · ·	-13.98	-11.95	-10.00	-7. 97	::	0.1	0.0	0.2
30000-31000	93.60		.90 101.76	102.60	-18.01	-12.03	-11.95	-10.00	-7.97	::	0.0 :	0.0:	0.1
31000-32100	00.20		- 20 80 10		-22.03	-12.03	-11.95	-10.00	-7.97	1 :	0.0	0.0 :	0.4
32000-33000 33000-34000	86.70 83 10		94.80		-23.99	-12.01	-10.00	-10.00	-7.97	1.1	0.0	0.0	0.0:
14000-15000	80.99		.40 90.80 .70 97.70		-26.01	-12.03	-10.00	-10.00	-7.97	1.1	0.0 '	0.0 :	0.0:
				48.20	-22.03	-10.00	-10.00	-7.97	-7.97	; ;	0.0 :	0.0	0.0 ;

1200Z FIGURE B-4-1-C

NORMAN MANLEY

THICKNESS STATISTICS

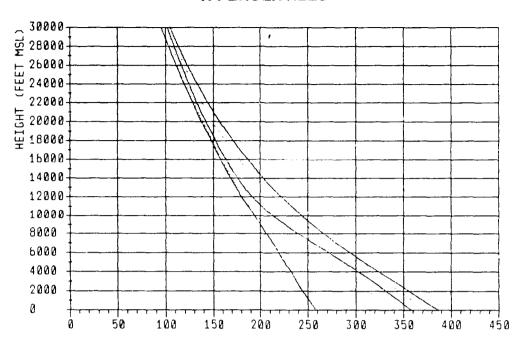
			DUCT	:s RCENTIL	•		SRLI THE PI	RS ERCENTII				NORM THE P	al Ercenti			SUB THE P	ercenti:	
PASE PT MSL	:	EFRQ	10%	80%	90%	MFRQ	10%	50%	90%	i	XFRQ	10%	80%	90%	MFRQ	10%	50%	90%
SFC-500	- ; -	11.6	96	292	390 :	33.7	98	292	390	+ -	97.7	2389	8087	34975 :	8.3	•	282	844
900-1006	1	0.0			;	0.8	9.8	98	1181	ŧ	3.2	9.0	4577	17740 1	0.6	98	98	1360
1000-1500	1	0.3	295	394	591 :	0.6	78	492	1033	t	2.1		4827	27770 1	0.8	98	787	1693
1500-2000	t	0.6	118	295	561 :	1.3		394	945	1	1.4	••	2654	21818	0.	108	640	1742
2000-2800	:	0.6	207	394	788 t	1.7	98	482	1201	1	2.0	**	4626	33106 (0.9	**	787	1000
2500-3000	t	0.7		295	591	1.8	**	591	1181		2.4		1969	32317	1.3	**	891	2047
3000-3800	:	0.6	295	492	689 :	2.2	9.6	591	1083	ţ	2.4	**	2362	10581	1.7		591	1663
3500-4000	:	0.9	197	295	989	3.0		541	984	1	3.5	96	2185	31294 :	1.3	**	462	1065
4000-4800	;	1.1	34	443	689	2.6	98	492	787	1	3.5		1083	30841 1	1.6	••	881	808
4500-5000	1	2.8	177	384	689	7.3	9.6	394	***	!	7.0	••	5413	30250 1	3.3	197	394	1161
5000-8000	1	4.0	94	384	689 ;	8.6		492	984	;	14.5		5116	29465	3.6	**	492	1408
8000-7000		4.5	9.8	298	502 :	7.8	9.8	394	787	:	12.4	394	4821	28438 1	4.7		691	1181
7000-8000	- 1	3.5		295	492	7.4	98	295	689	1	12.8	9.8	3494	27691 I	5.1		492	1376
8000-8000	- 1	2.9	90	295	492 1	8.5	90	295	680	1	10.8	98	2264	26215	6.6	9.0	891	1280
9000-10000	l.	1.9	94	197	394	4.7	9.8	295	482	:	9.3	24	1476	28427	7.5	**	304	844
10000-11000	- • -	3.1	90	197	295 ;	7.5	9.8	197	492	1	17.0	9.6	2884	24640	8.8	9.0	881	1280
11000-12000	:	2.5	94	197	374 :	8.4	9.8	197	304	1	12.1	9.8	3199	23656 :	8.8	9.0	591	1181
12000-13000		2.6	9 6	197	295 :	4.9		197	295	:	11.4	9.0	2658	22474 1			841	1161
13000-14000		1.6	98	148	228 :	4.8	98	197	394	t	14.0	9.8	3117	21008 1	9.4	98	394	984
14000-15000	1	1.4	96	197	197	3.5	98	197	298	1	12.9	9.6	4298	20604	10.2	9.0	194	968
15000-16000	- + -	1.1	96	98	197 :	2.7	98	197	295	1	11.1	90	4626	19716	8.7		384	888
16000-17000		0.7	108	184	164 :	2.3	102	164	223	t	11.4	301	6728	18701	8.5	184	492	846
17000-18000		0.3	164	164	164	1.6	164	164	164	1	9.1	820	10991	17717 1	7.8	104	492	984
18000-19000	1	1.1	164	164	164	1.4	164	164	164	:	11.8	856	16912	16569 1	9.6	164	482	820
19000-20000	,	0.2	164	164	164	0.5	164	184	128	1	6.7	984	14928	15748 :	5.4	164	320	606

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DASE	,		DUCT	S RCENTIL	ES :		SRLE THX PE	es Roentii	.ES :			NORM TEX P	al Ercenti	LES		SUB TEX PI	RCENTI	LES
FT MSL		*FRQ	10%	50%	90% :	MFRQ	10%	50%	90%	,	FRQ	10%	60%	90% I	EFRQ	10%	50%	90%
SFC-500	;	4.7	98	292	390 :	18.9	98	292	390		0.3	2556	8461	35267 1	16.0	194	390	
500-1000	:	0.2	9.0	344	492 :	0.5	9.8	197	1087		3.4	84	6641	34286	0.6			1102
1000-1500	1	0.2	197	384	591 :	0.5	98	591	1161		1.8	98	3720	20308 1	0.4		20	881
1900-2000	1	0.1	295	394	492	1.0	98	591	1299 :		1.8	98	3986	33400 1	0.6	28	**	-10
2000-2500	!	0.5	295	394	884 :	1.3		641	955		1.0	98	3347	32906 !	0.3			298
2500-3000	:	0.7	9.8	295	768	2.2	197	492	1083		1.8	138	3347	32484 :	0.3	2.0	296	1280
3000-3500	:	Q . 6	197	394	778 :	1.9	98	492	788		2.0	295	4331	31776 :	0.6	118	840	1661
3500-4000	i	0.8	9.8	344	640 :	3.1	98	492	1122 :		2.8	94	1870	21014 :	1.1	9.0	394	1270
4000-4500	1	1.0	9.6	492	709 :	2.3	9 8	492	984		2.7	94	3543	13931 1	1.7	197	591	886
4500-5000	1	2.9	94	295	869	8.5	9.6	₹.4	-06		9.1	9.0	4232	30250 (2.8	197	492	1083
5000-6000	1	4.0	98	384	591 :	11.9	98	443	886	1	7.3	205	8414	29660 1	3.3	98	394	984
8000-7000	ŧ	4.1	94	298	591 :	8.6	9.0	394	689	. 1	3.0	94	4281	26528 1	4.8		591	1083
7000-8000	;	2.2	99	298	492 :	6.2	9.8	295	689	1	11.1	197	3248	27593 1	6.2	9.0	891	1280
8000-9000	:	2.6	94	197	394 :	4.6	9.6	295	591 :		9.3	98	2461	26510 ;	7.8	9.8	492	1280
9000-10000	:	1.7	96	197	384	3.6	9.6	197	394		8.7		1161	28427	8.1	**	591	1083
10000-11000	;	3.0	98	197	295 :	8.8	98	295	492	1	8.9	98	3993	24837	0.4	9.8	482	1181
11000-12000	:	2.3	9.0	197	295	5.5	9.0	197	394	1	1.5	98	2165	23489 :	8.0		492	1181
12000-13000	1	2.0	9.8	9.0	295 :	4.8	9.0	197	394 :	1	1.4	98	2963	22612 !	0.3	197	492	1101
13000-14000		1.0	99	197	296 :	4.8	98	148	296	1	4.4	9.6	3297	21687 :	9.8	9.0	443	984
14000-15000	:	1.5	9 6	98	197	4.2	9.6	197	285	1	2.5	98	4593	20703	9.3	9.0	384	1033
15000-16000	•	0.7	90	90	197 :	2.3	98	98	207		11.3	9.8	8200	19718 :	8.8	98	394	873
18000-17000	;	0.2	104	184	184 :	1.7	9.8	184	328		9.6	381	7710	16780 :	8.2	164	459	820
17000-18000	:	0.1	164	164	164 :	1.2	164	104	184		7.3	804	17061	17717 :	8.0	213	492	938
18000-19000	1	0.9	164	164	184	1.2	184	164	164	. 1	11.5	654	16912	16569	9.4	164	326	820
19000-20000		0.0		. • •		0.8	164	184	164		5.5	722	14920	18748	8.0	184	328	820

1200Z FIGURE B-4-1-D B-57

N PERCENTILES



N (N-Units) 0000Z

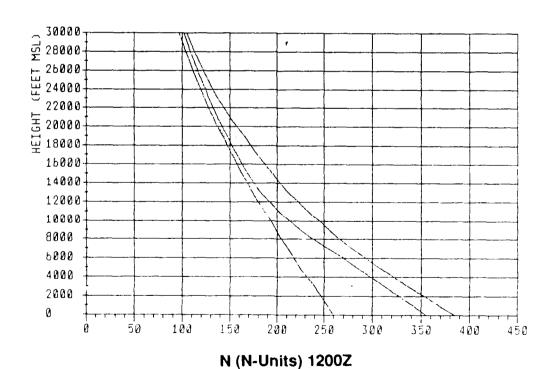
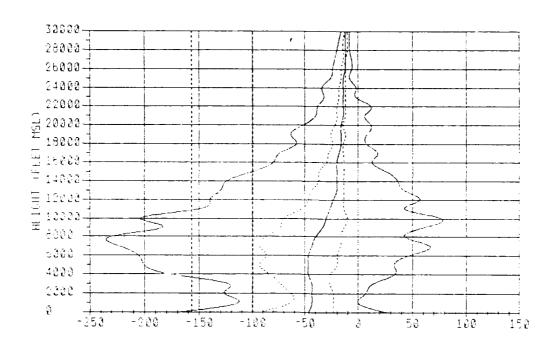
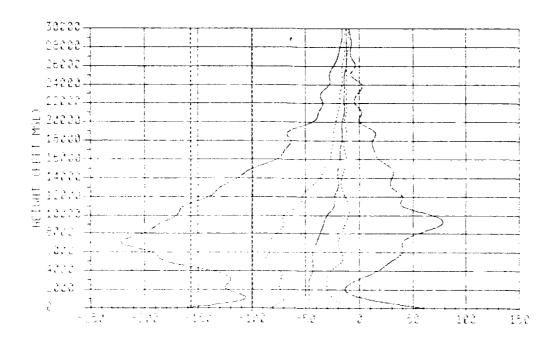


FIGURE B-4-2-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-4-2-B B-59

NORMAN MANLEY

WET-DRY TRANSITION

FT MSL	1%	N PERCENTILES	90% B	5×	1 1%	DNDH 10%	PERCENT 50%	ILES BON	90x		OCCURRENCE SRLR S	UB :
800-1000 1000-1800 1800-2000 2000-2800 2800-3000 3000-3600	1280.55 1218.48 1252.80 1249.70 1246.43 1242.80 1239.17 1233.17 1233.99 1230.84	347.19 383.00 337.20 384.60 330.21 347.80 327.80 341.83 316.80 330.19 309.19 327.88 302.37 320.80 290.04 313.44 208.80 309.00 201.89 298.69	389.00 380 382.80 372 389.00 388 349.44 389 341.89 380 332.87 340 328.38 332 317.38 328	.42 .59 .42 .30 .80 .89	1-210,23 1-127,08 1-110,33 1-110,41 1-119,48 1-120,00 1-140,98 1-167,39 1-187,30	-68.66 -63.75 -62.50 -82.50 -88.66 -72.91 -77.08 -81.25	-58.25 -43.75 -41.89 -41.89 -41.89 -43.75 -43.75 -45.83 -46.83	-20.83 -22.81 -22.81 -23.30 -25.00 -27.08 -27.08 -27.08 -27.08	41.10 ; 0.00 ; 0.00 ; -2.08 ; -2.08 ; 12.80 ; 10.42 ; 11.10 ; 29.16 ; 37.80 ;	0.6 : 0.2 : 0.2 : 1.3 : 1.1 : 1.1 : 1.1 : 1.2 : 7 : 1.4 : 1.1 : 1.2 : 7 : 1.4 : 1.2 : 7 : 1.4 : 1.2 : 7 : 1.4 : 1.2 : 7 : 1.4 : 1.2 : 7 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 : 1.4 :	24.2 2.7 1.6 2.2 2.5 3.6 4.6 5.5 5.2 10.6	7.0: 1.3: 1.1: 1.3: 1.3: 1.3: 1.4: 1.9: 2.2: 2.2: 2.2: 2.8:
8000-7000 7000-8000	1225.39 1219.85 1213.60 1205.60 1196.80	264.68 286.25 243.40 270.86 227.80 255.40 212.50 238.50 202.40 223.80	284.89 292 271.38 278 288.00 265	.75	1-198.83 2-220.48 1-220.08 1-233.33 1-179.95	-96,71 -96,38 -80.08	-47.91 -48.83 -43.23 -39.88 -33.33	-20.83 -20.05 -19.92 -18.88 -13.28	33.33 50.00 62.50 46.94 68.66	9.0	18.0 : 1	4.5 : 9.8 : 11.3 : 11.2 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-16000	1188.20 1179.00 1172.80	194.80 210.80 187.48 199.10 180.80 189.40 174.40 181.30 168.80 173.80	221.20 230 211.70 219 202.08 210	.70 .50	1-205.04 1-139.97 1-139.97 1-133.33 1-113.29	-50.00 -48.81 -43.23	-28.69 -23,44 -23.30 -20.05 -20.05	-13.20 -13.41 -13.41 -13.20 -13.29	63.20 1 43.64 1 50.00 1 43.36 1 33.33 1	3.4	7.5 1 1 6.2 1 5.8 1 4.5 :	5.2 : 0.1 : 9.8 : 9.6 : 9.5 :
19000-18000 18000-17000 17000-18000 18000-19000	:188.20 :181.10 :145.38	182.80 187.40 187.70 181.70 182.30 188.00 148.70 180.80 141.80 144.80	178.10 185 188.47 178 180.70 188	1.50	-96.61 -75.14 -68.93 1 -65.95 1 -53.53	-29.95 -26.01 -23.98	-19.92 -17.98 -17.96 -16.01 -18.01	-13.41 -13.35 -13.98 -12.03 -13.98	13.41 : 17.96 ! 18.00 : 10.00 : 9.88 :	0.5	5.4 1.9 0.9 1.4 0.2	6.1 8.6 5.1 5.6 5.5
20000-21000 21000-22000 22000-23000 23000-24000 24000-28000	:131.30 :128.91 :122.04	137.30 140.20 132.80 138.80 128.70 131.30 123.90 128.70 118.80 122.20	141.80 148 138.70 142 131.30 136	.30 .49	1 -47.55 1 -37.98 1 -41.95 1 -32.00 2 -30.00	-20.00 -20.00 -17.95	-18.01 -14.0± -13.98 -13.98 -13.98	13.98 -12.03 -11.95 -11.95 -11.95	10.00 : 8.02 : 10.00 : -2.79 : 0.00 :	0.0 1	0.9 0.2 0.2 0.0	4.6 4.4 5.2 2.2 2.7
25000-26000 26000-27000 27000-28000 28000-29000 28000-30000	1108.69 1104.80 1100.69	118.00 118.20 112.20 114.30 108.10 110.30 104.50 108.40 101.20 102.90	117.10 120 112.70 118 108.40 110	.40	1 -23.48 : -23.98 : -20.00 : -20.00 : -16.01	-10.01 -14.06 -13.98	-13.98 -12.03 -12.03 -12.03 -11.95	-11.95 -11.95 -10.00 -10.00	-7.87 ; -6.02 ; -5.84 ; -7.97 ; -8.05 ;	0.2 :	0.0 0.2 0.0 0.0	1.3 1.1 1.1 0.0
32000-33000 33000-34000	1 93.80 1 90.20 1 86.80 1 83.27 1 80.60	98.00 98.67 94.80 8.30 91.20 92.80 87 90 89.30 85.80 86.70	97.90 96 94.40 95 90.70 91	.40	: -14.06 : -17.98 : -21.95 : -23.98 : -18.04	-12.03 -12.03 -12.03	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 : -7.97 : -7.97 : -7.97 : -7.97 :	0.0 :	0.0 : 0.0 : 0.0 : 0.0 :	0.2 : 0.2 : 0.0 : 0.0 :

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HOT	1		ENTILES			:		DND	H PERCEN	TILES		: :	PERCENT		
FT MSL	: 1%	10%	50%	90%	99%	: 1	×	10%	50%	90%	88%	1 1	DUCT	SRLR	SUB
SFC-800	:261.87	343.56	309.00	379.01	389.89	:-190.	88	-100,00	-47.91	2.09	97.91	11	4.9	16.0	18.5
500-1000	257.69	338.19	352.00	366.30	377.92			-70.83	-45.63	-20.83	27.08	11	0.6	3.2	4.9
1000-1800	1284.24	329.50	345.25	359.25	370.38	1-108.	28	-60.60	-45.83	-22.91	10.42	11	0.0	2.0	2.6
1500-2000	:281.10	322.89	338.19	352.25	383.88	:-107.	39	-88.75	-45.83	-27.08	-6.25	::	0.2 :	2.6	1.1
	1247.84	315.69	331.06	344.50	385.38	:-119.	87	-72.91	-45.83	-29.18	-10.42	1.1	0.5 :	2.8	0.3 :
2500-3000	244.09	307.25	323.19	338.19	347.00	1-120.	83	-72.91	-45,83	-31.25	-10.42	1:	0.3:	3.4	0.3
	240.40	200.19	315.19	327.89	337.89			-72.91	-45.83	-31.25	-0.33	1.1	0.9 1	2.2	
	236.20	291.36	308.00	320.38	330.63			-70.83	-43.75	-29.16	5.29	: :	1.2:	2.3	
	1232.80	284.19	300.75	313.19	322.94			-70.83	-43.78	-29.16	10.42	1 1	1.1:	3.8	• • • •
4800-5000	1229.20	278.35	293.75	308.58	310.03	1-148.	91	-78.00	-43.75	-25.00	29.16	; ;	2.8 1	7.5	6.5
5300-8000	224.04	259.75	202.25	297.00	305.88	1-172.	91	-83.33	-43.75	-16.66	27.08		4.6 ;	13.2	8.2
8000-7000	1217.98	241.30	208.25	283.00	291.50	:-191.	66	-83.33	-43.75	-18.78	37.50	::	9.8 :	12.9	9.0
	1212.28	224.60	263.60	270.50	278,50	:-223.	63	-03.33	-40.10	-18.66	48.31	; ;	9.0 :	13.7	8.5
	204.34	211.80	237.30	257.40	265.33			-76.89	-38.71	-16.66	53.38	::	8.8 :	14.1 3	11.2 :
●000-10000	197.80	202.40	223.00	244.80	253.50	1-198.	74	-89.92	-33.33	-13.41	74.03	1.1	5.6 ;	9.9	12.9
10000-11000	:191.90	194.70	210.80	232.70	242.80	:-183.	89	-86.66	-26.69	-13.28	53.94	-++-	7.0 !	12.4	14.1
11000-12000		187.30	198.70	221.90	230.85			-53.25	-23.30	-13.28	33.33	1.1	4.9	8.2	
12000-13000	1178.80	180.80	189.10	211.20	220.20	1-139.	97	-50.00	-23,30	-13.41	43.36	11	3.5	9.7	
13000-14000	172.40	174.20	180.50	201.70	210.30	1-115	29	-40.10	-20.05	-16.66	26.56	: 1	2.4	8.8	7.6
14000-15000	166.60	168.30	173.00	192.50	200.80	106.	64	-38.59	-20.05	-16.66	20.69	: :	1.5	4.4	
18000-18000	+	182.70	166.80	183.30	192.60	89.						-++			:
16000-17000		187 80	181 40	179.80	195.10	-70.		-30.07 -28.56	-19.92 -17.98	-13.41 -13.98	23.30 13.98	1:	1.7:	2.3	
17000-18000		152.20	155.75	197.40		-87.		-28.93	-17.96	-13.98	11.00	11	0.4	1.2	
18000-19000		148.70	150.40	139.50		- 86.		-23.98	-18.01	-12.03	17.96	: 1	0.8 :	1.7	
19000-20000		141.80	144.80	192.20	181.50			~23.98	-18.01	-13.98	3.98	1 3	0.2 :	0.3	
	•					•						-++			
20000-21000		137.30	140.00	146.23	154,60			-21.95	-16.01	-13.98	2.03	1:	0.0 1	0.3	3.5
22000-23000		132.80	138.80	140.70		-36.		-20.00	-14.06	-12.03	-1.95	: :	0.2	0.0	
28000-24000		128.80	131.10 128.70	135.60	141.80	1 -37.		-17.96	-13.98	-11.95	-1.95	: 1	0.0	0.3	
24000-25000		119.80	122.30	125.80	129.50			-16.01 -16.01	-13.98 -13.98	-11.95 -11.95	-3.98 -1.88	11	0.0 :	0.0	
	*								-13.90	-11.50	-1.55	-++-			3.1
25000-26000		116.00	110.20	121.30	124.70	1 -23.	98	-18.01	-13.98	-11.95	-8.02	1.1	0.0 :	0.0	0.9
	1109.39	112.20	114.30	118.90	119.90	1 -21.		-15.94	~12.03	-11.95	-6.02	::	0.0 1	0.0	1.2
	1105.30	108.10	110.30	112.60	115.10	: -18.		-13.98	-12.03	-10.00	-8.00	1:	0.0 :	0.0	
20000-20000		104.80	108.40	108.30	110.20	-18.		-13.98	-11.95	-10.00	-8.05	1:	0.0 1	0.0	
29000-30000	: 57.30	101.20	102.80	104.70	108.10	-10.	01	-12.03	-11.95	-10.00	-10.00	1:	0.0	0.0	0.2
30000-31000	93.89	98.00	99.60	101.20	102.40	-18.	01	-12.03	-10.00	-10.00	-7.97	- + + -	0.0 ;	0.0	0.0
	80.53	84.70	96.30	97.80	88.80	1 -10.	01	-12.03	-10.00	-10.00	-7.97	; ;	0.0 ;	0.0	
	87.00	91.10	92.70	94.40	95.30	: -22.		-12.C3	-10.00	-10.00	-7.97	::	0.0 ;	0.0	
	83.61	87.90	89.30	90.60		1 -23.		-12.03	-10.00	-10.00	~7.97	1.1	0.0:	0.0	0.0
34000-35000	(80.67	65.60	86.70	87.80	88.20	1 -17.	8 8	-10.00	-10.00	-7.97	-7.97	; ;	0.0:	0.0	0.0

1200Z FIGURE B-4-2-C B-60

NORMAN MANLEY

WET-DRY TRANSITION

THICKNESS STATISTICS

Base Ft MSL	t t	%FRQ	DUCT THK PE 10%	e Posmil Son	25 90%	XFRQ	SRLI THK PI 10%	rs Ercentii Box	.ES 90%	1	XFRQ	HORM THE P 10%	al Ercenti Son	LES (MFRQ	SUB TEX P	ERCENTII BOX	BOX
SFC-800 800-1000	1	8.8	96 295	292 295	481	24.2	90	292	390 1378	!	98.4	2881 1270	7382 8844	35073 (34650	7.0	194	292 1181	930 1181
1000-1800	i	0.2	394 591	394 391	394	1.1	98 295	986 787	1200	i	1.1	98	4331 1918	34188 1	0.3	98	9.0	290 1772
2000-2500	i	1.1	158 298	495	591	1 1.3	30	394	1083		1.7	98	2854 3347	8851 i	0.9	197	1101	2264 2362
3000-2000	ì	0.2		295	295	2.5	217	591	928	1	3.0		3248	6791	0.5		298	891
3500-4000 4000-4500 4500-5000	1	1.4 1.7 3.6	98 118 98	295 394 295	591 669 591	2.8 1 3.5 : 7.6	98 128 98	295 443 492	787 787 886	:	3.8 4.8 8.0	136 98	3180 2018 2412	31238 10404 24016	1.3 2.7 2.6	98 98 177	296 891 891	1476 886 1161
5000-8000	+-	4.0	197	492	591	8.1	98	492	935	+- !	14.1	888	4626	30014	2.6	9.0	837	2208
8000-7000 7000-8000 8000-9000	:	6.4 7.0 7.3	197 98 177	394 295 295	891 822 492	10.7 14.3 12.1	98 98 98	394 295 197	787 889 492	1	12.2 18.8 19.5	9.0 9.0	3248 2953 2510	28597 27937 26805	7.9 8.9 7.4	9.0 9.0	492 492 492	1376 1376 1181
9000-10000	;	4.0	bé	295	492	9.5	9.8	295	492	<u>.</u>	13.6	•	2362	25752	7.4	**	***	904
.0000-11000	!	7.6	98 98	197 197	394 394	11.5	98	197	394 394	1	20.2	96	7418 2688	24935	8.8	9.0	492 591	1101
.2000-13000	:	3.3	98	197	394 295	6.6	98	197	394 394	i	9.5		5594 3707	22770 I	6.2	207	738 840	1565
4000-19000	;	2.0	94	148	246	4.8	98	197	394	!	9.8	94	4923	20703	6.1	116	394	1161
19000-18000	1	1.1	98	98 131	197	3.1	98 108	197 164	381 308	-	7.6	325 289	4790 4839	19817	3.6	98 184	492 476	781 1033
17000-18000	i	0.5	184	164	164	1 0.9	164	164	164		3.9	262	4268	17881	2.3	164	492	1165
18000-19000	1	0.5	184	164	164	1 1.4	184 184	164 164	184 184	i	8.7 3.0	492 1265	15912 14926	16786 : 15566 :	4.5	164	328 492	820 984

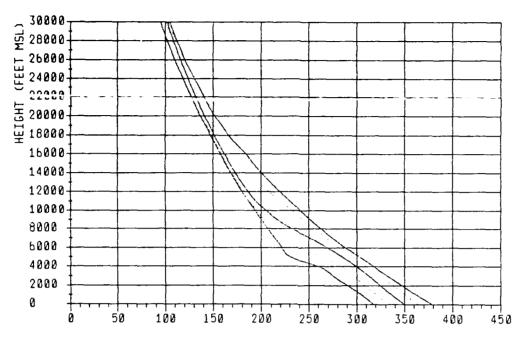
0000Z

PASE	,		DUCT	r ercentil	. 2 5 t		SRLI TWY PI	rs Ircentii	.TE	•		MORM THE P	al Ercenti	1.96 1		SUB	ercent I I	
FT MEL	i	XFRQ	10%	50%	90%	MFRQ	10%	50%	90%	i	XFRQ	10%	60%	eox :	*FRQ	10%	50%	90%
SFC-500	1	4.9	95	292	392	18.8	90	292	470	- • -	97.4	2182	7877	34975 :	18.5	292	390	786
500-1000	1	0.3	96	99	98 1	1.1	98	248	1969	1	4.2	98	8612	34561 !	1.2	98	**	686 1
1000-1500	ł	0.0			1	1.1	98	492	984	1	3.4	167	8548	34158	0.8	98	295	492 1
1500-2000	1	0.2	295	295	295	1.4	98	991	984	1	1.7	807	3000	7509 1	0.0			
2000-2500	:	0.3	197	246	295	1.7	90	394	1260	1	1.0	630	6890	28728	0.2	609	489	689 1
2500-3000	1	0.3	394	541	889 1	2.2	98	492	1083	ι	2.8	1821	4134	32711	0.2	295	295	295 !
3000-3500	;	0.8	197	298	767 :	0.8	90	295	689	1	1.4	1181	5110	31727 1	0.8	591	787	1378 (
3500-4000	;	0.0	298	296	394 (1.7	98	688	1161	t	2.2	14	2559	31510 1	0.8	28	394	1280 1
4000-4500	1	0.8	197	295	394 1	2.9	98	394	984	t	2.2	•	4921	30939 1	1.5	128	787	1604
4500-5000	 	2.6	177	384	: 889	4.9	98	394	787	. í	5.4	94	2756	30280 1	3.7	**	384	1083
8000-6000	1	2.7	98	394	600 1	9.4	98	394	787	1	14.6	9.0	2758	29699 :	5.5	98	891	1280
8000-7000	- 1	5.9	99	295	492	10.3	• •	295	689	1	14.0	98	3396	20072	5.5	98	443	1856 (
7000-8000	:	7.4	84	295	492	11.2	98	295	689	ŧ	18.0	118	6299	27986 1	5.6	98	591	1260 1
8000-9000	1	8.8	9.8	295	492 :	10.9	96	298	591	ı	17.8	9.0	5607	26805	7.6		591	1476 1
9000-10000	- 1	4.4	9.6	295	492 1	7.9	9.8	197	492	1	13.7	90	3150	20919 (8.1	98	304	1083
10000-11000		6.4	98	197	394	11.7	98	197	492		19.1	9.8	6529	24935	8.3	90	443	1280
11000-12000	1	3.8	96	295	394	7.7	98	197	394	1	13.4	94	3839	23813	4.0		449	1083
12000-13000	;	3.2	98	197	295 I	5.9	98	197	492	;	10.0	9.8	9088	22868	6.9	298	394	1142
13000-14000	1	2.0	9.8	99	256 1	5.0	96	197	394	1	9.4	90	3150	21816 (5.3	96	384	767
14000-15000	ŧ	1.5	98	98	285	4.0	98	197	394	ı	8.4	9.0	7874	20703 :	5.6	**	492	1181
15200-16000	- • -	1.7	98	98	276	2.1	98	197	339	- • -	8.8	98	3921	19849	3.8		298	984
16000-17000	1	0.2	164	164	164	1.8	141	184	328	1	8.3	400	18048	18727		184		984
17000-18000	:	0.6	184	248	328	1.2	164	184	328	1	1.3	820	17061	17717	2.7	164	482	204
18000-19000	1	0.5	184	184	164	1.7	164	164	164	1	8.2	591	13780	16076	9.3	184	492	656 1
19000-20000	•	0.2	164	184	164 :	0.3	164	164	164	ι	3.0	722	14928	15682	2.3	164	320	722 1
14000-15000 15000-16000 16000-17000 17000-18000 18000-19000	- + -	1.7 0.2 0.8 0.5	98 164 164 164	98 164 248 184	285 : 276 : 164 : 328 : 164 :	4.0 2.1 1.8 1.2 1.7	98 141 164 164	197 197 197 194 184 184	394 394 339 328 328 164		8.4 8.8 8.5 8.3 1.3 6.2	98 400 820 591	3150 7874 3821 18048 17061 13780	21816 (20703 : 	5.3 6.6 3.8 4.3 2.7 6.3	98 98 184 184	384 482 285 482 482 482	76 118 98 98

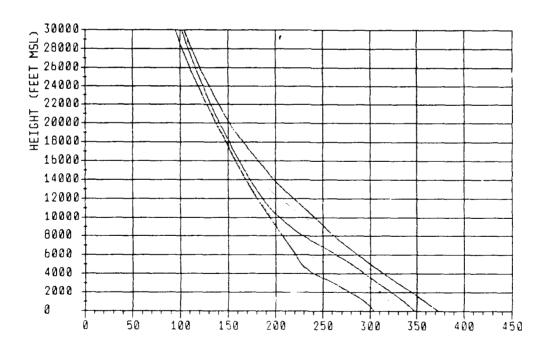
1200Z

FIGURE B-4-2-D

N PERCENTILES



N (N-Units) 0000Z

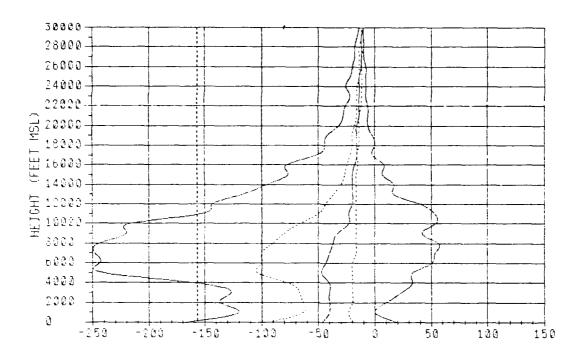


N (N-Units)1200Z

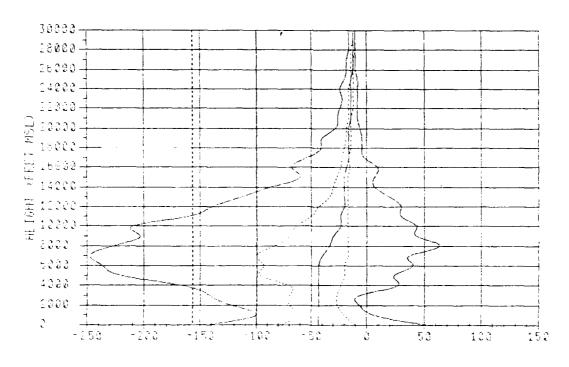
FIGURE B-4-3-A B-62

NORMAN MANLEY DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-4-3-B B-63

NORMAN MANLEY DRY SEASON

HOT FT MEL	1%	N PERCENTILES	90%	e x	1 1%	DNDH 10%	PERCENTIL 50%	ES Box		PERCENT	OCCURRENCE STE
1000-1500 1800-2000 2000-2500 2800-3000	1323.24 1314.04 (306.19 (301.96 1293.40 /290.21 1276.37 1265.94	339.86 388.00 331.80 346.38 324.78 340.00 318.00 333.88 331.69 328.00 304.87 321.80 298.86 318.38 282.69 309.80 286.76 303.08	360.38 37 384.00 36 347.06 38 340.88 34 333.78 34 328.39 33 319.80 32	2.75 4.92 7.11 9.59 1.65 5.19	1-193.98 1-116.88 1-109.18 1-127.94 1-133.33 1-129.84 1-120.83 1-131.26 1-150.00	-88.75 -84.58 -82.50 -82.50 -82.50 -84.58 -88.75	-41.88 -2 -39.59 -2 -39.59 -2 -37.50 -2 -37.50 -1 -39.59 -1	2,91 2,91 0,83 0,83 8,78	0.00 / 4.17 ! 6.25 ! 14.58 ! 17.52 ! 22.91 !	8.5 0.4 0.5 0.7 1.3 1.0 1 0.7 1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	24.0 t 6.9 : 3.3 t 0.8 t 2.4 t 1.2 t 2.5 : 1.7 : 2.9 : 2.6 : 2.8 t 3.0 t 3.0 t 3.7 t 2.5 t 4.2 t 4.9 t 4.5 t
800-8000 800-8000 700-8000 800-8000 800-8000	1241.05 1227.88 1220.40 1213.20 1205.60 1198.70	278.88 296.80 281.28 283.88 238.80 288.03 219.80 249.90 209.40 230.20 201.00 213.90	295.69 30 280.58 28 268.00 27 254.80 25	2.75	1-204.16 1-248.80 1-279.94 1-289.94 1-286.62 1-210.02	-86.41 -102.08 -108.26 -100.00 -86.71	-43.75 -1 -45.83 -1 -43.75 -2 -39.97 -1 -36.59 -1	8.75	35,41 ; 33,33 ; 46,75 ; 63,36 ;	! 6.0 : ! 12.1 ! ! 13.3 ! ! 14.6 ! ! 13.6 !	18.3 7.2 18.3 7.7 18.4 7.6 18.6 10.0 17.6 10.7 13.7 8.6
12000-18000 18000-14000 14000-18000	1185.00 1178.80 1172.40 1166.70	193.78 202.10 188.70 192.30 180.30 184.80 173.80 178.00 188.00 171.50	217.20 22 204.80 21 192.80 20 181.80 18	7.70 7.30 7.40 7.90	+	-80.00 -39,97 -33.33 -29,98	-23.30 -1 -20.05 -1 -20.05 -1 -19.92 -1	6 , 6 6 6 , 6 6 6 , 6 6 6 , 6 6	43.36 36.59 10.03	: 0.3 : 4.7 : 1 3.8 : 1 2.3 : 1 1.2 :	11.8 : 10.3 : 7.4 : 9.0 : 6.3 : 9.7 : 4.4 : 4.0 : 2.3 : 3.7 :
1000-16000 16000-17000 17000-18000 16000-18000	1188.00 1150.90 1145.10 1139.80	182.50 185.70 187.20 180.50 182.00 184.80 148.50 148.50 141.60 144.10	186.60 18 189.70 17 183.90 18 148.00 18	1.48	-67.40 -46.01 -44.29 -32.03	-23.98 -20.00 -20.00 -18.04	-17.96 -1 -18.01 -1 -18.01 -1 -16.01 -1	6.66 5.94 5.94 3.98 3.98	-2.03 -2.03 -2.03 -8.02	1.0 (1.9 (3.6 : 1.2 : 2.4 : 0.6 : 1.6 : 0.5 : 2.1 : 0.1 : 1.5 :
23000-24000 24000-28000	130.60 1126.82 1121.00 1116.80	137.10 139.50 132.70 135.00 128.50 130.70 123.90 128.30 119.90 121.90	138.00 14 133.40 13 128.90 13 124.30 12	9.33 4.10 9.00 3.80 7.99	-28.04 1 -28.04 -23.96 1 -23.98 1 -23.98	-16.01 -16.01 -15.94 -15.94	-13.98 -1 -13.98 -1 -13.98 -1 -13.98 -1	3.98 3.98 2.03 1.95 1.95	-6.02 : -8.05 : -8.05 :	: 0.0 : 0.0 : 0.0 : 0.0 : 0.0 :	0.0 : 0.8 : 0.0 : 1.3 : 0.0 : 1.1 : 1 : 0.7 : 0.0 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.5 : 0.
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22000-23000 :128.68 128.50 130.70 133.20 136.34 : -23.86 -16.01 -13.88 -11.85 -7.97 : 0.0 : 0.0 : 0.6 : 23000-24000 :121.70 123.80 128.70 133.20 : -20.00 -18.94 -13.88 -11.85 -7.97 : 0.0 : 0.0 : 0.4 : 24000-25000 :118.60 119.80 121.90 124.20 127.80 : -22.03 -16.94 -13.88 -11.85 -7.87 :: 0.0 : 0.0 : 0.4 : 28000-24000 :119.80 121.90 124.20 127.80 : -22.03 -16.94 -13.88 -11.85 -7.87 :: 0.0 : 0.0 : 0.0 : 0.4 : 28000-24000 :119.80 121.90 124.20 127.80 : -20.00 -14.06 -12.03 -11.85 -10.00 :: 0.0 : 0.0 : 0.7 : 28000-27000 :108.33 112.20 114.00 118.00 118.50 : -18.04 -13.98 -12.03 -11.85 -10.00 :: 0.0 : 0.0 : 0.7 : 28000-27000 :108.33 112.20 114.00 118.00 118.50 : -18.04 -13.98 -12.03 -11.85 -10.00 :: 0.0 : 0.0 : 0.0 : 0.4 : 27000-28000 :104.20 109.10 110.00 112.00 114.38 : -17.98 -13.98 -12.03 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.2 : 28000-29000 : 98.93 104.50 108.20 107.90 109.80 :16.01 -12.03 -11.85 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.0 : 28000-30000 : 98.93 101.10 102.80 104.40 108.70 : -18.01 -12.03 -11.85 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.0 : 28000-31000 : 98.93 101.10 102.80 104.40 108.70 : -18.01 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 32000-33000 : 98.90 94.00 98.80 98.00 97.70 98.70 : -18.01 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 32000-33000 : 98.90 94.00 98.20 97.70 98.70 : -18.01 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 32000-33000 : 98.90 94.00 98.20 97.70 98.70 : -18.04 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 0.0 : 32000-34000 : 98.90 94.00 98.20 97.70 98.70 : -18.04 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 0.0 : 32000-34000 : 98.40 94.80 98.20 97.70 98.70 : -18.04 -12.03 -10.00 -10.00 -7.87 :: 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0															
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28000-28000 :119 90 118 00 117 90 120 00 122 00 : -20.00 -14.06 -12.03 -11.98 -10.00 :: 0.0 : 0.0 : 0.7 : 28000-27000 :108.33 112.20 114.00 118.00 118.50 : -18.04 -13.98 -12.03 -11.95 -10.00 :: 0.0 : 0.0 : 0.0 : 0.4 : 27000-28000 :104.20 109.10 110.00 112.00 114.58 : -17.98 -13.98 -12.03 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.2 : 28000-28000 :98.93 104.50 108.20 107.90 108.80 : -18.01 -12.03 -11.95 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.0 : 28000 : 98.93 104.50 108.20 107.90 108.80 : -18.01 -12.03 -11.95 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 :	24000-25000	:116.80	119.00	121.90	124,20	127.60	: -22.03	-15,94	~13.90	-11.95	-7.97	11	0.0	0.0:	
27000-28000 :104.20 108.10 110.00 112.00 114.18 : -17.98 -13.98 -12.03 -10.00 -10.00 : 0.0 : 0.0 : 0.0 : 28000-29000 : 98.93 104.50 108.20 107.90 108.80 : -18.01 -12.03 -11.98 -10.00 -10.00 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 28000-30000 : 98.30 101.10 102.80 104.40 108.70 : -18.01 -12.03 -11.98 -10.00 -10.00 :: 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.															0.7
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32000-33000 85.80 90.90 92.80 94.30 98.20 -20.00 -12.03 -10.00 -10.00 -7.97 1 0.0 0.0 0.0 13000-34000 92.43 97.70 99.10 90.80 91.30 -18.04 -12.03 -10.00 -10.00 -7.97 1 0.0 0.0 0.0															
33000-34000 : 82.43 87.70 88.10 80.80 81.30 : -18.04 -12.03 -10.00 -7.87															
	34000-35000	1 79.90	85.50	86.60	67.70										

1200Z FIGURE B-4-3-C B-64

DRY SEASON

NORMAN MANLEY

THICKNESS STATISTICS

BASE			DUCT	'S RCENTIL	74	•	SRLI THY PI	rs Ercenti	r.es	,		NORM THE P	al Percent			SUB THE PI	ERCENTI	r. v a
FT MSL	i	XFRQ	10%	80%	90%	MFRQ	10%	Jox	90x	ì	MFRQ	10%	80%	30% E	XFRQ	10%	80%	90×
FC-800	1	8.8	95	292	380	24.0	98	292	489	1	88.9	2242	6891	13799	0.9	194	343	489
100-1000	ŧ	0.1	295	295	295	1 0.7		8.2	492	1	2.3	994	5116	8307	0.1	600	409	689
100-1500	t	0.9	197	295	394	: 1.5		541	1083		3.0	128	3004	9655	0.0		836	2067
100-2000	1	0.8	98	443	591	1 1.3	98	492	984	ı	1.7		204	0763	0.9	**	197	1386
100-2500	1	1.0	9.0	298	768	: 2.0	9.0	691	1181	:	3.0		3612	9783 1	1.4			1000
100-3000	:	0.7	197	295	787	1 1.3	9.8	443	1033	1	3.3	96	2412	5708 I	1.6	**	448	2057
100-3900	ŧ	0.4	197	295	492	1 1.6	98	443	886	}	2.8	98	3988	8897 1	2.1	118		1664
100-4000	;	0.8	98	246	492	1 2.4	9.6	492	1033	1	3.0	**	837	9980	2.0		864	1467
100-4800	1	1.8	9.8	492	728	1 3.4		492	984	ì	2.2		1280	4488 1	1.0		891	***
100-8000		4.8	96	295	591	9.8	**	394	884	1	9.2	197	2362	30280	3.0	276	801	1693
000-6000	1		197	394	591	13.0	98	394	787	1	18.7	118	4921	29758	4.8	98	689	1675
200-7000	1	10.3	197	394	591	14.0	9.0	295	787	ì	17.0	428	28183	28872	3.8	**		1447
100-8000	ı	11.6	9.8	394	492	15.8	9.6	295	891	:	20.7		6004	27886 1	7.5			1270
>00-8000		10.4	9.0	295	492	14.2	98	295	482	1	22.2	90	16962	26904 1		**	482	1260
)00-10000	1	6.0	**	295	394	1 10.9	98	197	492	ł	16.2	197	25280	20010	5.7	98	591	905
300-11000	1 1	7.7	98	298	394	1 11.3	98	197	394	1	18.9		13616	24938	4.6		443	1329
200-12000		4.0	98	197	394	1 8.4	98	197	472	i	11.7	38	20555	23981	8.1		691	1083
200-13000		3.3	98	197	295	8.4		197	298	ı	9.5	128	7923	22668	5.9	90	448	1211
300-14000	1	2.1	98	197	295	: 3.8	98	9.0	394	ι	6.6	394	21198	21902 1	2.3	148	881	1161
000-15000	1	1.0	34	148	286	1.9	197	295	295	ŧ	8.3	94	20014	20899	2.4		492	886
200-16000) ;	0.8	98	98	197	1.8	98	197	328		4.2	98	9153	19817	3.0	10	394	807
200-17000	1	0.0				1.0	131	184	328	i	2.9	828	18537	10011	1.2	164	394	771
200-16000	1	0.1	164	164	164	1 0.5	164	164	328	ì	1.6	164	17307	17661	1.7	164	482	884
200-19000	1	0.1	164	164	184	0.4	164	164	164	i.	2.2	1080	18078	16848	1.8	164	492	722
200-20000	;	0.0				: 0.1	164	164	164	ı	1.6	1066	15256	10018	1.0	164	328	492

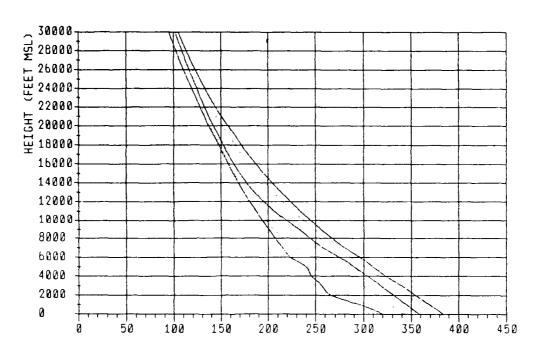
0000Z

			DUCT	' S				SRLF	ts.				MORM	IAL			SUB		
BASE	;		THE PE	RCENTIL	28	1		TEK PI	RCENTI	LES	- 1		THE P	ERCENTI	LES :		THE PE	RCENTI	LES
FT MSL	:	EFRQ	10%	50%	90×	1	xfrq	10%	BOX	90%	1	MFRQ	10%	80%	90%	XFRQ	10%	TOX	90% I
BFC-800	- • -	2.8	95	292	413	1	11.7	95	294	489	1	20.6	2359	6988	38230	17.8	194	390	801
500-1000	1	0.2	384	394	394	1	0.5	98	197	492	:	2.8		4282	34296	0.3	94	22	886 /
200-1500		0.1	98	9.0	98	1	0.9	90	246	925	:	1.9		4626	10335	1.1	94	591	1870
500-2000	1	0.6	90	295	669	:	1.1	98	197	1102	ı	1.6	98	3199	20913 :	0.5	98	881	984 !
000-2500	1	0.4	197	295	295	t	2.1	118	689	1063	ŧ	1.9	335	3445	7874 1	0.4	••	246	984
800-3000	:	1.1	197	295	650	t	1.7	98	295	926	1	2.3	1437	3150	32376 !	0.4	290	738	2067 1
000-3500	1	0.5	96	492	800	:	2.1	98	344	1083	:	2.5	148	4429	26843	0.7	98	298	1578 :
500-4000		1.2	98	295	758	t	1.6	8.6	394	1220		2.2		3543	31810	1.1	128	837	1083
000-4500	1	0.6	295	394	787	1	2.2	98	394	1063	ŧ	2.7		2168	30900 1	1.0	207	691	974 1
500-3000	:	4.2	9.0	295	591	1	9.3	98	394	846	1	€.0	308	3396	30339	3,4	14	394	1201
000-8000		7.3		394	691	;	11.9	98	394	787		17.6	148	8088	29955	4.1	98	889	1181
000-7000	- 1	9.2	128	295	591	:	12.9	98	295	443	1	16.7	90	20183	28872	8.2	74	691	1378
000-4000	1		197	344	492	;	14.5	98	295	591	;	16.5	197	27199	27898 1	8.0	94	492	1142
000-9000	;	8.2	98	295	492	;	12.8	96	197	492	ı	16.9		26116	27002 :	8.9	**	691	1220
000-10000	:	€.0	9.0	295	492	1	9.4	9.6	398	433	1	14.3	90	28132	20919	8.2		492	984
000-11000	- • -	5.9	98	295	394	- - -	9.4	98	197	493		17.2	217	24348	24939	8.8	94	891	1340
000-12000	:	4.5	9.8	197	335	1	6.8	98	197	394	1	9.9	98	14043	23951	4.3		443	1250 1
000-13000	;	2.6	9.0	197	394	1	4.3	9.0	197	318	1	8.2	98	22179	22868	3.7	94	591	1299 i
000-14000	1	2.3	9.0	197	295	1	3.0	98	9.0	295	:		98	20998	21785 1	2.6	98	394	787 1
000-15000	1	0.8	90	197	295	;	2.3	98	197	354	1	3.7	404	20309	20791	1.4	197	443	938
000-16000	- • -	0.7	98	98	295	- + -	1.1	98	98	364	- + -	3.1	98	19128	19915	2.3	94	492	936
000-17000	- 1	0.0	•••				0.5	9.8	164	104		3.1	2658	18373	16872	1.6	144	492	1430 1
000-18000		0.0					0.4	184	184	164		1.1	476	10991	17668	Ö. 9	164	686	1312
000-19000		0.1	184	164	164	i	0.2	184	164	164		1.7	4445	16076	18897	1.6	164	528	886 1
000-20000		0.0	- • •		- • •	ì	0.1	184	184	104		0.9	180	15174	18732	0.7	326	328	492
										:::	- i .								

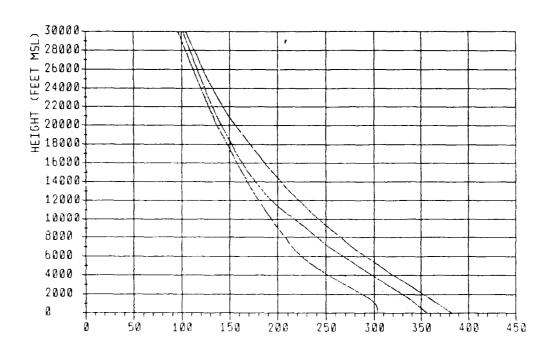
1200Z

FIGURE B-4-3-D B-65

N PERCENTILES



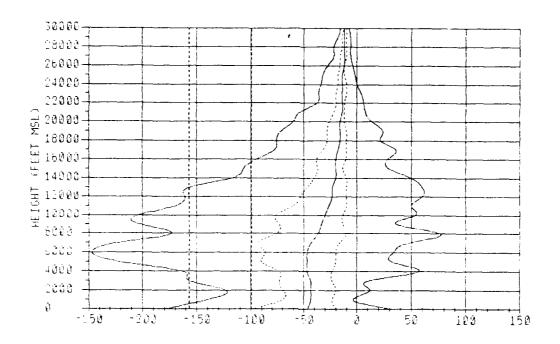
N (N-Units) 0000Z



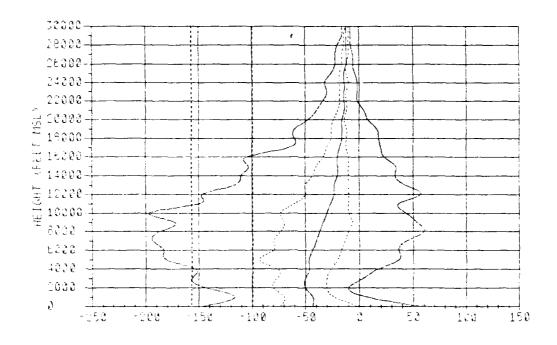
N (N-Units) 1200Z

FIGURE B-4-4-A B-66

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-4-4-B B-67

NORMAN MANLEY

DRY-WET TRANSITION

PT MSL	1%	N PERCENTILES	80%	55%	18	DND:	# PERCENT	ILES BON	00%	: !	PERCENT	OCCURRI	ENCE 5UD
SFC-500 500-1000 1000-1800 1800-2000 2000-2800 2000-3800 3600-3800 4000-4500 4500-6000	1333.18 (321.83 (311.48 1289.28 1277.01 1278.23 1270.07 1280.97 1284.11 1248.84	347.88 364.80 338.96 389.90 332.90 344.86 324.86 341.86 317.96 338.20 310.76 320.76 286.86 314.00 288.32 307.00 288.32 307.00	366.06 3 361.36 3 354.66 3 347.75 3 340.51 3 332.25 3 324.76 3 317.36 3	78,75 71,14 84,42 86,89 46,87 40,00 31,23 24,04	-218.86 :-133.33 !-134.86 !-140.98 !-125.00 !-152.66 !-166.86	-127.08 -78.00 -72.91 -70.83 -86.66 -70.83 -72.91 -70.63 -75.00 -79.16	-43.75 -43.75 -45.75 -41.66 -43.63 -45.63 -45.63	-14.58 -22.80 -22.91 -22.91 -20.83 -20.83 -22.91 -22.91 -16.68	56.09 2.08 -2.08 -2.08 10.42 12.50 11.75 12.50 33.33 71.89	11 11	10.6 ! 0.7 ! 1.0 ! 1.3 : 0.6 ! 0.9 : 1.6 : 1.8 : 2.2 !	28.8 4.0 3.7 4.2 4.2 3.7 4.0 4.0 4.0 4.0 4.0 6.6	11.2; 1.6; 1.0; 1.0; 2.4; 3.3; 3.6; 3.6; 4.3;
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	:238.70 .423.30 :214.80 :208.20 :199.10	268.52 288.19 248.00 272.75 229.00 257.00 214.80 242.50 204.20 229.10	295.19 2: 271.99 2: 257.88 2:	93.08 79.00	1-209.33 1-247.91 1-213.36 (-173.30 1-188.67	-69.58 -69.58 -93.38 -78.69 -73.30	-47.91 -48.83 -41.66 -38.71 -33.33	-18.75 -18.75 -18.66 -10.03 -13.28	34.94 39.58 50.00 59.93 48.74	11	7.0 : 6.9 : 8.6 : 7.0 :	12.9 ! 16.1 ! 18.7 ! 13.7 !	9.1 6.5 9.9 12.0 10.2
10000-11000 11000-12000 12000-13000 13000-14000 14000-16000	:188.20 :179.10 :172.71	195.90 215.30 188.20 203.30 181.40 192.30 174.80 183.30 166.60 176.40	223.10 2 212.70 2 203.20 2	31.30 20.76 11.30	1-200.00 :-189.24 :-138.72 !-148.61 :-108.64	-73.30 -56.77 -50.00 -46.61 -39.97	-23.30 -20.05	-10.03 -10.03 -10.03 -10.03 -13.28	50.00 50.00 63.38 58.64 40.10	11	7.6 5.8 3.8 4.8 2.5	i4.5 : 11.7 : 9.1 : 8.2 : 4.7 :	15.8 13.6 12.9 12.0 9.2
15000-16000 16000-17000 17000-18000 18000-19000 18000-20000	:150.30 :181.20 :145.50	163.20 168.50 157.80 162.20 152.50 158.30 148.80 150.90 141.90 145.20	177.30 1: 169.20 1: 161.60 1:	84.80 76.21	:-106.78 ! -86.01 ! -78.01 ! -76.01 ! -60.00	-36.71 -33.33 -30.00 -27.96 -27.96		-13.28 -12.03 -11.95 -10.00 -11.95	29.95 30.07 28.30 20.00 17.98	::	2.2 0.9 0.4 0.7 0.1	4.8 : 2.6 : 1.8 : 2.8 : 1.0 :	7.9 8.7 8.8 10.4 7.2
20000-21000 21000-22000 22000-25000 23000-24000 24000-26000	1131.30 1128.90 1122.00	137.30 140.30 132.80 135.70 128.80 131.30 123.90 126.80 118.80 122.30	142.90 1 137.10 1 131.50 1	42.29	-47.98 -38.04 -31.98	-23.98 -22.03 -20.00 -18.04 -17.98	-14.06	-12.03 -11.96 -11.95 -11.95 -11.95	6.05 3.98 3.98 2.03 -2.03	11	0.3 : 0.0 : 0.0 : 0.0 :	0.4: 0.4: 0.1: 0.0:	8.2 4.2 4.2 3.4 2.4
27000-28000 28000-29000	,113.10 :109.00 :104.86 :100.80	115.90 119.20 112.10 114.30 108.00 110.20 104.40 108.30 101.00 102.80	117.40 1 112.80 1 108.40 1	24.90 20.10 15.50 10.30	: -23.98 : -20.72 : -18.04	-18.01 -18.01 -14.06 -13.96 -13.98	-13.99 -12.03 -12.03 -12.03 -11.95	-11.95 -11.95 -10.00 -10.00	-3.93 -8.02 -8.02 -8.02 -7.97	11	0.0 :	0.0 : 0.0 : 0.3 : 0.0 :	1.8 1.1 0.6 0.6
3000-31000 31000-32000 32000-33000 33000-34000 34000-38000	: 93.20 : 99.90 : 88.40 : 82.80 : 80.20	97.80 99.40 94.50 98.10 90.90 92.60 87.70 89.10 85.60 86.50	97.70 94.20 90.50	98.30 91.30	: -16.01 : -16.01 : -20.00 : -23.98 : -20.00	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7,97 -7,97 -7,97 -7,97 -7,97	11	0.0 1	0.0 : 0.0 : 0.0 : 0.0 :	0.2: 0.2: 0.0: 0.0:

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HOT FT MBL	1 1%	N PERC	ENTILES	90%	99%	! 1 1%	DNE 10%	H PERCEN	TILES 90%	99%	1 1	PERCENT DUCT :	OCCURRI	ENCE :
SFC-500	:324.68	347.69	300.50	374.69		1-172.93	-92.67	-43.75	8.33	85.42	-++	3.9 (13.1 :	23.2
800-1000	305.30	341.51	354.44	366.50		1-100.00	~62.50	-41.66	-10.42	33.33	1.1	0.0 :	1.3 :	8.5
1000-1500	1308.40	338.50	348.38	380.67		1-106.25	-66.66	-43.75	-18.75	12.50	::	0.3	2.2	4.2
1500-2000	:302.90	328.19	341.75	384.19	363.80	1-137.50	~72.91	-45.63	-26.00	0.00	1.1	1.2	3.3	1.9
2000-2500	296.61	319.69	334.38	346.06		:-145.83	-79.16	-47.91	-29.16	-10.42	::	1.8:	4.6	0.9
2800-3000 3000-3500	1288.39	310.56	326.06 317.56	337.56	345.88	1-138.98	-79.16	-50.00	-31.25	-2.06	1.1	1.2 1	4.5 :	1.6
3500-4000	265.49	301.60 293.56	309.38	321.16	329.00	1-138.35	-77.08 -77.08	-50.00 -50.00	-33.33 -29.97	0.00 6.25	11	1.3:	4.0 :	1.5 :
4000-4500	1258.68	288.00	301.30	313.25		:-181.80	-77.08	-47.91	-29.16	10.42	11	1.9	5.3	2.8
4500-5000	1250.50	278.19	293.86	306.19		-163.33	-83.33	-45.83	-25.00	33.33	;;	4.7	12.1	5.9
											- + +		·	:
8000-8000	:235.90	281.80	281.75	295.58		1-179.16	-89.97	-47.91	-19.92	33.33	: (6.2 :	15.5 1	7.5
€000-7000	1224.40	243.20	266.88	201.38		1-103.19	-79.16	-43.75	-16.66	42.09		6.9 :	10.3	9.4 1
7000-8000	1214.40	228.20	252.50	268.38		1-193.68	-61.25	-39.58	-10.42	43.11	::	7.0 :	13.3	11.6
8000-9000	1208.20	214.80	238.70	288.70		1-180.07	-73.43	-36.59	-10.03	60.02	1.7	5.9 :	13.2	13.0 :
8000-10000	1199.00	204.20	228.20	242.90	250.88	1-170.05	-69.92	-33.33	~6.64	53.38	11	5.8 :	11.0 :	13.6
10000-11000	1192.02	195.70	213.80	232.50	239.78	:-196.06	-73.30	-29.95	-10.03	42.70	-++	8.3 :	12.9 :	13.6
11000-12000	185.00	189.20	201.40	221.20		1-146.35	-56.64	-26.69	-13.28	38.71	ii	5.1:	8.7	10.7
12000-13000		181.40	191.40	210.90		1-139.97	-50.00	-23.30	-10.03	53.25	11	3.8 :	7.0 :	11.1
13000-14000		174.90	182.80	201.17		:-113.41	-48.61	-23.30	~13.28	39.97	- 1 1	2.8 ;	5.4	11.0
14000-15000	198.82	188.80	175.00	191.40		(-116.66	-38.87	-20.05	-10.03	33.33	- 11	2.9	4.7	11.9
	. •										-++			:
15000-18000		183.10	188.10	182.89		:-100.00	-38.71	-20.05	-13.26	33.33	: ;	2.2 :	3.7 :	10.3
16000-17000	1156.10	157.70	181.90	174.40		1 -96.91	-31.96	-17.98	-12.03	17.67	::	0.9	2.8 :	7.5
17000-18000		152.40	156.00	188.00		1 -63.99	-27.96	-17.98	-11.95	18.01	: 1	0.1 :	1.0:	7.3 :
	:145.30	148.70	150.60	189.00		1 -60.00	-28.01	-19.01	-11.95	16.01	1 1	0.6	1.2	8.7 :
19000-20000	:140.40	141.70	144.90	151.89	160.70	-54.41	-24.06	-10.01	-13.98	16.01	::	0.0	0.4	4.7
20000-21000	:135.70	137.20	140.10	146.40	193.72	-42.52	-22.03	-18.01	-13.98	2.03	- • •	0.1 1	0.1 :	3.5
21000-22000	1131,20	132.00	135.50	140.80	147.30	1 -36.01	-20.00	-14.06	-12.03	1.98	11	0.0:	0.0:	2.8
22000-23000	1126.92	128.50	131.10	135.90	141.80	-31.98	-18.04	-13.98	-11.95	-1.95	- 11	0.0 :	0.0:	2.2
23000-24000	1122.10	123.00	126.60	130.80	138.70	-30.00	-17.96	-13.99	-11.98	-2.03	4.1	0.0	0.0	1.8
24000-25000	1117.58	119.70	122.20	125.60	129.60	1 -30.00	-17.96	-13.98	-11.95	-2.03	: 1	0.0:	0.1 :	2.2
	*****					*					-++			:
25000-26000		115.00	118.10	121.20		-25.97	-16.01	-13.98	-11.95	-4.94	::	0.0:	0.0:	0.9
27000-27000	1109.88	112.10	114.20	117.00	119.80	: -22.03	~18.94	-12.03	-11.95	-6.02	1.1	0.01	0.0 1	0.3
28000-28000		104.40	108.20	112.00	115.27		-14.08	-12.03	-10.00	-7.97	1 1	0.0:	0.0	0.3
28000-20000		101.00	102.80	104.60	110.20	: -17.98	-13.98	-12.03	-10.00	-7.97	1:	0.0	0.0	0.1
2000-30000			102.80	404.90	100.10	: -18.01	-13.98	~11.95	-10.00	-8.01	11	0.0 :	0.0	0.1
30000-31000	93.70	97.70	99.40	101.10	102.30	-18.97	-12.03	-10.00	-10.00	-7.97	11	0.1:	0.0	0.3
\$1000-32000	1 90.30	94.50	98.00	97.70		-17,98	-12.03	-10.00	-10.00	-7.97	11	0.0:	0.0	0.0
32000-33000	80.70	90.90	92.50	94.20	95,20	-20.00	-12.03	-10.00	-10.00	-7.97	- 11	0.0	0.0	0.0
33000-3400C	93 10	87.70	89.10	90.50	91.20	1 -23.98	-12.03	-10.00	-10.00	-7.97	1.1	0.0	0.0 :	0.0:
34000-35000	60.59	85.50	86.50	87.40	66.00	: -18.04	-10.00	-10.00	-8.05	-7.97	1.1	0.0 :	0.0 :	0.0

1200Z FIGURE B-4-4-C B-68

NORMAN MANLEY

DRY-WET TRANSITION

THICKNESS STATISTICS

se			DUCT	'S RCENTIL				SRLI	rs Ircentii				HORM	AL ERCENTI				8UD	ERCENTI	
MSL	ţ	MFRQ	10%	50%	90%	:	XFRQ	10%	50%	90%	;	*FRQ	10%	80%	90%	i	MFRQ	10%	8C*	90%
500	- • -	10.6	95	292	390	1	28.8	18	282	394	1	97.6	1916	7088	27740	i	11.2	202	202	392
1000		0.1	394	394	384	:	1.5		443	1339	1	8.1		3246	12875	1	0.9		••	609
1500	;	0.9	197	344	492	1	2.2	98	840	1211	1	1.5	561	8680	13002	1	0.3	••	837	1879
2000	;	1.0	197	295	591	1	1.8	28	394	1142	1	2.8	9.0	4183	19836	- 1	0.7	**	938	1969
2900	1	0.3	295	344	394	;	2.5	90	492	1102	;	2 . 5	94	3543	33016	:	1.6	187	1062	1676
3000	1	0.9	98	295	688	1	2.5	98	197	1102	1		94	3248	17313	1	1.3		295	1200
3500	1	1.2	98	443	787	;	2.4	98	541	1132	:	3.4	9.6	3081	31923	1	1.0		649	1476
4000	ı	0.9	295	443	886	t	1.9	18	492	1063	ı	3.6	9.6	1772	12402	1	1.9	••	600	1200
4500	:	1.6	118	394	748	1	2.4	94	492	888	;	3.3	96	689	4078	١	2.1	20	591	2008
5000	 - = =	3.4	98	295	748	:	7.0	98	205	787	. 1 -	0.2	295	4330	30250	. !	5.8	197	492	984
000	1	5.4	187	344	689	1	8.5	9.6	384	837	1	15.2	197	2884	28881	i	4.5		840	1427
7000		7.3	197	394	980	1	12.3	98	344	787	1	12.9	98	3543	28724	1	5.3	**	669	1280
3000	}	8.1	98	296	591	:	12.1	98	286	787	1	19.9	98	4065	27790	i	6.6	228		1644
0000	ï	8.9	98	296	394	ı	11.1	9.0	395	591	1	16.4	98	2963	26677	ı	9 C	108	691	1280
10000		4.8	98	295	492	ı	9.2		197	591	1	15.4	98	1280	25801	:	4.0	9.8	394	960
11000		7.2	98	296	394	-	13.3	98	197	492	1	23.0	9.0	3445	24873	7	11.0	9.8	591	1350
2000	1	4.8	9.6	295	394		10.2	99	197	394	ı	18.1	98	2805	23708	ī	8.0		492	1398
3000	1	3.2	98	197	364	1	7.2	98	197	394	;	13.5	98	4134	22770	t	7.3	197	591	1003
4000	:	4.5	9.8	197	295	;	7.0	98	197	354		14.2	98	4426	21785	ı	7.8	197	691	1181
1 2000	;	2.3	90	197	226	t	4.4	98	197	295	1	10.7	98	4608	20801	1	4.7	18	394	1083
16000	- • -	1,9	98	197	295	- + -	4.7	98	98	197	- + -	8.8	90	4658	19718	1	8.7	•••	891	1178
17000		0.7	9.6	184	230	1	2.1	115	164	328	1	8.2	387	9000	18832	ı	8.3	330	607	1312
18000		0.4	184	164	184	:	1 8	164	164	328	1	7.3	194	4787	17717	1	5.9	164	492	984
19000		0.7	164	164	184	1	2.5	164	184	184	1	10.9	656	18912	16766	ı	8.5	164	492	820
20000		0.1	184	184	184	:	1.0	164	184	16.	t	8.4	394	6388	16469		4.3	180	492	1132

0000Z

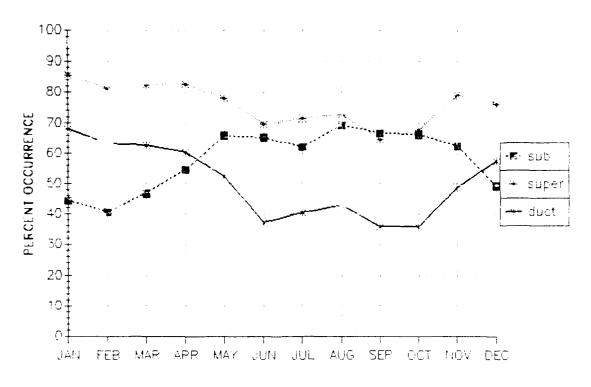
	DUCTS THE PERCENTILES				,		SRLF	rs Ircenti				NORM	al Ercenti				SUB			
L	!	XFRQ	10%	50%	90×	:	%7RQ	10%	50%	90%	1	MFRQ	10%	50%	90%	í	XFRQ	THK P1	ERCENTI: SON	90%
0	;	3.9	95	292	390	1	13.1	96	292	390	;	¥6.7	687	6938	34926	1-	23.2	94	390	983
00	1	0.0				1	0.9	9.0	246	1083	ı	4.3	98	2904	24869	1	1.3	98	197	1201
100	1	0.3	9.8	148	197	ı	1.€	98	344	1033	;	4.8	541	\$102	34080	ł	0.3	96	443	787
00	:	1.2	295	296	591	ŧ	2.1	9.0	591	965	1	3.0	1844	4872	10394	1	0.3	9.6	98	
100	1	1.2	197	344	889	:	2.7	28	143	1014	1	2.2	96	2707	21748	1	0.6		98	
00	:	0.6	295	394	394	!	2.8	98	92	1191	;	4.9	9.8	3494	32248	1	1.3	90	298	955
100	:	1.2	9.8	344		;	2.2	96	492	1161	1	2.5	197	2656	31806	1	0.7	691		1476
00	;	1.8	9.6	295	561	:	2.4	98	295	1083	1	3.4	9.8	2953	27021	ŧ	1.0	197	1083	1280
00	:	1.3	197	394	688	÷	3.7	98	394	1083	t	3.€	98	1476	30840	1	1.8	197	482	1122
00	!	4.1	96	298	502	1	9.6	96	295	827	1	G . G	433	3445	30349	1	3.8	167	384	886
00	;	3.8	98	394	522	:	8.9	98	394	846	;	17.9	98	3297	20006	1	4.8	98	891	1220
00	:	5.4	9.8	295	492	:	7.8	98	394	787	ı	12.2	9 0	2165	26479	(6.9	96	***	1112
00	:	6.5	9.6	295	49	;	10.1	9.0	344		t	16.7	90	2658	27790	ı	8.7	98	591	1836
00	1	5.4	98	295	394	t	10.7	98	295	571	1	17.7	98	2215	26608	i	9.7	98	394	1378
000	:_	5.0	98	197	394	:	9.7	98	197	492	1	18.7	98	2067	28743	ı	8.4	94	443	935
000	1	5.9	98	295	394		11.6	9.0	197	394	7	22.4	197	4134	24930	1	7.9	98	492	1496
000	:	4.8	98	197	295		7.6	98	197	394	ï	13.0	9.6	3248	23754	1	7.8		492	1152
000	:	3.2	98	197	295	:	€.2	88	197	394	;	13.3	9 5	4134	22770	1	7 2	9.8	492	1280
000	1	2.3	98	9.0	295	:	5.0	9.8	187	394	t	11.6	98	5200	21884	t	7.0		492	
000	١.	2 . 6	9.0	197	295	:	4.5	9.0	94	295	:	10.0	9.8	5184	20732	1	6.5		492	1132
000	:	2.1	30	148	246	:	3.4	98	98	276	1	9.7	98	3347	19817	1	6.0	98	628	020
000	t	0.7	98	131	164	;	2.3	131	184	308	1	7.8	891	8202	18931	t	4.3	164	656	1140
000	•	0.1	164	164	. 64	:	1.0	164	184	328	:	6.2	164	17061	17717	:	8.1	164	492	1033
000	;	0.6	104	184	164	1	1.2	164	164	328	:	8.4	708	16076	16717	ŧ	6.6	164	324	656
000	1	0.0				:	0.4	184	164	164	i	4.3	820	14920	15749	i	1.0	164	492	820

1200Z

FIGURE 5-4-4-D

NORMAN MANLEY MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



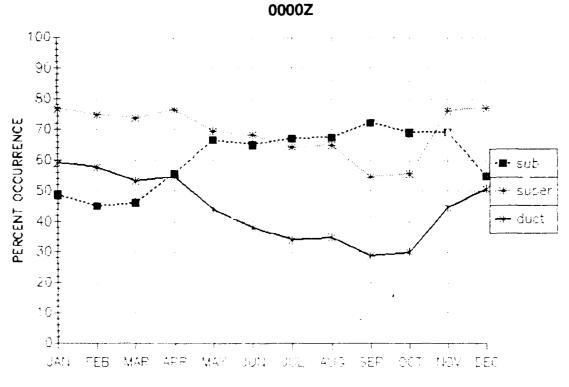
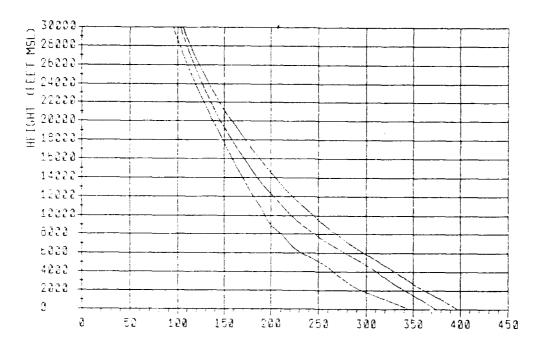


FIGURE B-4-5 B-70

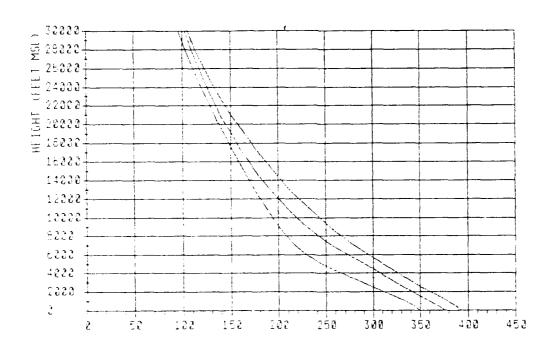
1200Z

SANTO DOMINGO WET SEASON

N PERCENTILES



N (N-Units) 0000Z

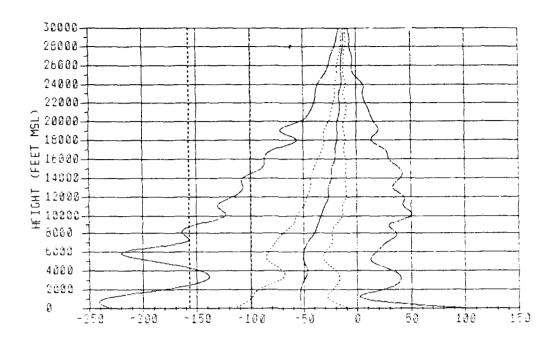


N (N-Units) 1200Z

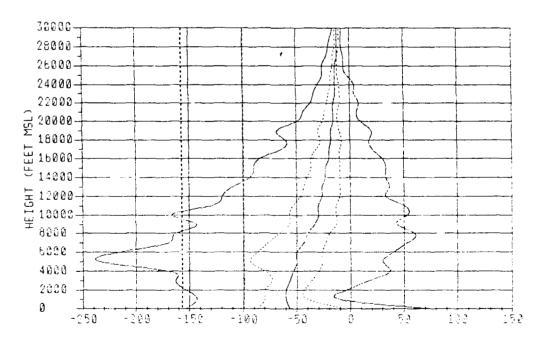
FIGURE B-5-1-A B-71

SANTO DOMINGO WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-5-1-B B-72

SANTO DOMINGO WET SEASON

FOT FT MSL	1 1%	W PERCENTILES	90%	88X	1%	DND:	N PERCENTILES SON SON		PERCENT	OCCURRENCE : SRLR SVB
8FC-600 500-1000 1000-1000 1500-2000 2000-2500 2500-3000 3500-3500	1352.62 1338.70 1328.28 1308.38 1208.37 1202.38 1273.75	367.69 378.75 369.19 371.06 350.40 363.50 340.00 354.58 329.08 345.38 318.69 336.19 311.37 327.69	366.19 387.00	391.49 392.75 374.60 384.08 384.69 345.56	1-271,28 1-158,25 1-187,50 1-256,10 1-193,75 1-198,68 1-147,91	-152.08 -79.16 -93.75 -106.33 -100.00 -83.33 -76.00 -7G.83	-58.33 18.53 -50.00 -18.75 -52.08 -27.08 -58.25 -50.07 -58.25 -27.08 -52.08 -22.91 -50.00 -18.75 56.00 -16.75	37.60 4.17 8.28 22.81 25.00 46.62	11 18,2 1 1.8 1 4.7 1 7.0 1 3.8 1 2.6 1 1.8	30.7 : 23.2 : 6.2 : 6.3 : 10.0 : 2.0 : 113.8 : 2.1 : 11.8 : 3.3 : 6.1 : 4.7 : 3.2 : 6.3 : 3.2 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 : 6.3 :
400-4800 4800-8000 5000-6000 6000-7000	1264.81	297.08 313.58 289.25 308.69 273.37 293.25 282.70 275.86	323.38 315.75 	322.55 312.88 295.38	1-143.78 :-179.18 !-190.41 !-212.08	-70.83 -73.86 -83.23 -88.41	-50.00 -20.83 -50.00 -22.91 -50.00 -31.25 -50.00 -29.16	10.42 20.63	1 0.6 1	11.0 1 4.0 1 14.8 1 4.8 1
7000-8000 8000-8000 9000-10000 	1191.03	237.20 259.75 225.20 244.30 214.50 230.40 205.10 219.50 194.80 209.30	259.58 248.00 234.50	267.06 263.60 242.80	1-163.41 1-156.64 1-143.36 1-126.69 1-129.95	-78.69 -66.66 -56.64 -56.64 -46.74	-43.70 -23.30 -39.97 -23.30 -38.09 -10.02 -30.07 -16.66 -20.69 -13.28	38.59	1; 4.1 1; 4.9 ; 1; 3.4 1; 2.6 ; 1; 2.5	10.5 5.8 10.1 7.7 6.9 6.9 6.6 11.5 6.1 12.2
12000-13000 13000-14000 14000-18000	:180.00 173.80 187.60	188.20 200.40 178.80 191.70 171.80 183.30 185.40 178.10	213.80 204.90 198.10	211.20 201.80	1-118.72 1-113.28 1-103.38	-46.61 -43.36 -43.23 -36.71	-28.89 -13.28 -23.44 -10.03 -23.80 -10.03 -23.30 -13.28	39.97 43.30 33.33	11 2.3 t 11 1.6 t 11 1.6 t	4.8 : 11.4 : 4.8 : 11.7 : 4.4 : 12.6 :
16000-17000 17000-18000 18000-18000 19000-20000	:151.80 :145.90 :140.70	160.00 189.40 154.29 162.30 148.60 155.60 143.10 149.30	172.60 165.40 187.90	177.60 170.30 162.50	1 -80.05 (-70.00 1 -88.49 : -80.00	-33.98 -31.85 -30.00 -28.04	-20.05 -12.05 -20.00 -11.95 -18.04 -10.00 -17.96 -12.03	23.98 18.04 17.88	11 0.8 1	2.4 9.8 1.5 7.7 1.7 11.2 0.6 8.1
21000-22000 22000-23000 23000-24000 24000-25000	1130.78 1128.03 1120.80 116.20	134.00 138.60 129.60 133.80 124.80 128.90 120.70 124.20	145.30 139.70 133.90 128.40	149.10 143.00 137.20 130.90	1 -42.03 1 -40.00 1 -36.01 3 -33.98	-23.98 -21.95 -20.00 -20.00	-18.01 -10.00 -18.01 -10.00 -14.04 -10.00 -13.88 -10.00	10.00 0.02 3.00 3.00	0.1 0.0 0.0 0.0	0.2 7.6 0.5 6.5 0.2 6.2 0.2 6.4
25000-26000 26000-27000 27000-28000 28000-28000 29000-30000	1107.60 1103.40 1 99.36	118.70 119.80 112.90 115.70 108.70 111.30 105.10 107.20 101.80 103.80	118.70 114.10 109.40	110.80		-17.98 -18.01 -16.01 -14.06 -13.86	-13.88 -11.85 -13.98 -11.85 -12.03 -10.00 -12.03 -10.00 -12.03 -10.00	-3.08 -6.02 -8.02	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 2.7 0.0 1.8 0.0 1.2 0.0 0.8 0.0 0.3
31000-32000 32000-33000	1 92.30 1 86.90 1 65.30 1 82.10 1 79.74	98.30 100.10 94.90 98.80 91.40 93.10 88.20 89.60 86.00 86.90	98.40 94.80 91.00	95.72 91.80	1 -33.98	-12.03 -12.03 -12.03 -12.03 -10.00	-11.95 -10.00 -11.95 -10.00 -10.00 -10.00 -10.00 -7.97	-8.02 -7.87 -7.87	1 0.0 1 1 0.0 1 1 0.0 1 1 0.0 1	0.0 0.1 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0

0000Z

HOT FT MBL	1 1%	N PARCENT 10%	ILES SON SON	99%	1%	DND 10%	H PERCEN	FILES SOX	09X	11	PERCENT DUCT (OCCURRI	SUR !
SFC-800 800-1000 1000-1500 1900-2000 2000-2900 2800-3000	1365.25 1337.61 1308.82 1306.73 1310.77 1298.73	363.00 37 383.78 36 344.28 38 334.28 34	1.19 388.75 3.00 381.75 4.08 373.36 5.25 384.19 8.00 354.88 8.19 345.68	389.88 381.49 372.08 382.74	:-177.02 t-125.00 t-132.87 t-156.25 t-150.00 :-154.16	-99.26 -81.25 -79.16 -79.18 -81.25	-45.83 -58.33 -80.41 -60.41	22.91 -31.25 -39.58 -43.75 -43.75	110.40 18.75 -10.42 -10.42 -8.25	11	3.8 1.0 1.2 2.0 1.8	14.8 4.2 3.6 0.9 6.0	29.0 4.1 1.1 1.2 1.2
3000-3500 3500-4000 4000-4500 4500-5000	1288.26 1288.13 1264.38 1255.95	313.76 32 304.56 31 288.25 31 287.57 30	6.75 330.69 9.69 327.66 0.69 319.60 2.72 311.75	342.89 334.38 328.87 318.19	1-153.91 1-172.91 1-159.33 1-195.60	-79.16 -79.00 -72.91 -77.08 -65.41	-58,25 -56,25 -54,16 -52,08 -50,00	-39.08 -35.41 -33.33 -29.18 -27.08	2.08 20.83 20.83 29.16 60.41	11 11 11	2.3 2.1 2.6 2.5 4.6	8.4 3.0 4.3 6.6 9.9	1.9 3.6 4.0 4.6 8.0
5000-6000 6000-7000 7000-8000 8000-9000 9000-10000	- •	247.70 27 233.90 28 222.80 24 212.80 22	9.08 301.19 1.89 285.06 5.50 270.38 0.50 256.00 7.70 243.00	292.75 278.71 265.04 261.70	!-225,96 !-206,40 !-169,92 !-180,02 !-139,97	-93.75 -83.33 -76.69 -66.66 -56.64	-50.00 -47.91 -43.75 -39.97 -33.33	-26.69 -26.69 -23.30 -16.66 -13.26	31,25 39,58 58,38 53,33 48,61	11	10.7 7.8 0.4 4.8 3.9	18.6 15.6 10.4 10.7 7.0	7.0 7.7 (6.6 (11.3) 12.0 (
1000-11000 11000-12000 12000-13000 13000-14000	1185.40 1178.40 1173.10 1187.40	193.50 20 184.90 19 177.70 18 170.80 18	7.20 231.70 7.20 221.00 6.10 211.39 9.60 202.70 1.20 184.10	229.70 213.45 210.00 200.90	-156.77 -129.55 -109.56 -106.77 -86.55	-58.84 -80.00 -46.81 -43.38 -39.97	-30,07 -26,68 -26,68 -28,86 -23,30	-13,28 -13,28 10.03 -10.03 -10.03	48.61 48.61 36.71 33.33 29.90	11	5.1 3.1 1.6 1.9	8.4 : 6.7 : 4.8 : 8.6 : 2.7 :	18.0 10.7 12.4 12.3 0.8
15000-16000 16000-17000 17000-18000 18000-18000	1188.60 1181.40 1148.60	159.40 16 153.80 16 148.10 15	3.80 188.00 7.10 178.80 0.40 170.70 4.20 163.40 8.10 158.30	177.20 168.60	1 -86.65 1 -79.96 : -62.03 : -70.00 : -53.41	-36.58 -36.01 -31.85 -28.04 -27.86	-20.05 -20.02 -20.00 -17.96 -17.96	-10.03 -11.20 -10.00 -7.97 -11.98	33.35 23.00 22.03 20.07 10.00	11	0.6 (0.8 (0.1 (1.5 (0.1)	3.3 / 1.7 ! 0.7 ! 1.0 ! 0.3 !	10.8 ! 10.0 ! 8.8 ! 12.8 !
20000-21000 21000-22000 22000-25000 23000-24000 24000-25000	1130.80 1126.08	133.70 13 128.40 13 124.70 12	2.70 150.00 7.70 143.90 3.10 138.60 8.20 133.00 3.80 127.80	142.50	: -47.86 : -38.04 : -37.98 : -32.03 : -30.00	-24.08 -22.03 -21.98 -20.00 -20.00	-18.01 -18.01 -14.06 -13.98 -13.98	-11.95 -11.95 -11.95 -10.00 -11.95	8.03 7.87 8.02 2.03 2.03	1 	0.2 ! 0.0 ! 0.2 ! 0.0 !	0.2 0.0 0.0 0.0 0.2	6.8 6.7 6.8 6.1 4.2
25000-26000 26000-270J0 27000-28000 26000-29000 25000-30000	1108.00	112.70 11 108.50 11 104.80 10	9.30 122.70 8.20 118.10 1.00 113.60 7.00 109.10 3.40 105.30	120.30 115.60 110.70	-28.01 -23.98 -20.00 -18.04 -18.01	-17.96 -18.01 -14.06 -13.86 -13.96	-13.98 -13.98 -12.03 -12.03 -11.96	-11.95 -11.95 -10.00 -10.00 -10.00	-3.98 -6.02 -7.97 -7.97 -8.05	11	0.0 1	0.1 0.0 0.0 0.0	1.0 0.0 0.0 0.0 0.0 0.0
3000-31000 31000-32000 32000-33000 33000-34000	: 89.01 : 85.50 : 82.20	94.90 9 91.30 9 80.10 8	9.80 101.70 8.50 98.20 3.00 94.70 9.80 90.90 6.90 87.60	91.70		-12.03 -12.03 -12.03 -12.03 -10.00	-11.95 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.87 -7.87 -7.87 -7.87 -7.87	11	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.2 : 0.1 : 0.1 : 0.0 : 0.0 :

1200Z FIGURE B-5-1-C B-73

THICKNESS STATISTICS

2427	DUCTS BASE THK PERCENTILES FT MEL XFRQ 10X 50X 9				F O (SRLA THK PE	S RCENTIL	EC			NORM THE P	AL ERCENT <i>I</i>	. FC .		CUE THK PE	RCENTIL	EE
	ì	XFRQ			90%	%FRQ	10%	50%	90%	;	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%
SFC-500	-+-	16.2	151	348	446	30.7	98	295	449	•-·	95.7	492	5708	34877 (23.2	249	348	545
500-1000	1	1.2	157	295	965 1	3.2	98	591	1161	:	8.0	99	5807	34286 :	1.4	98	98	689
1000-1500	j.	3.0	98	295	492 :	7.3	98	492	1319	:	5.1	98	4330	33794	0.8	98	148	1398
1500-2000	ı	4.3	98	295	689 :	8.0	98	492	994	:	6.4	295	5463	33597 :	1.4	197	984	2018
2000-2500	1	1.6	167	394	846	4.6	98	591	1024	i	7.8	138	4626	14876 :	1.9	295	£37	1673
2500-3000	1	1.4	246	295	689	2.9	98	146	591	:	8.2	256	3347	21070 :	2.3	295	787	1693
3000-3500	ŧ	1.2	128	295	394 :	2.2	98	295	945	:	5.4	98	3150	16831 :	2.9	98	591	1575
3500-4000	1	1.0	197	344	856 :	2.0	98	98	846	:	5.0	98	3002	23524 :	1.3	98	295	886
4000-4500	1	1.0	118	295	492 :	3.4	98	394	787	;	4.2	492	3248	17395	1.9	118	492	886
4500-5000	1	2.7	177	295	650	3.3	98	197	837	;	5.8	207	5856	30250 :	2.7	98	295	492
5000-6000		5.4	98	344	591	9.8	98	394	986	+-	15.9	689	6791	27685 ;	3.0	98	394	748
4000-7000	- 1	6.5	98	295	512 :	11.5	98	295	886	:	13.7	98	3937	28774 :	4.0	98	394	984
7000-8000		3.2	138	295	492 ;	7.0	98	295	650	;	12.5	197	4429	27691 :	4.4	197	541	1004
8000-9000	1	4.4	98	197	492 :	8.2	98	295	689	:	12.1	98	3150	26510 1	5. 1	98	394	1239
9000-10000	ı	2.7	78	295	394	4.9	98	295	541	1	10.3	98	2756	25526	6.6	128	394	984
10000-11000	-+-	2.4	98	197	335	5.7	98	197	492	+-	14.4	98	3248	24521	7.1	98	394	1181
11000-12000	1	2. 1	98	295	443 :	5.3	98	197	394	;	12.2	98	1919	23370	9.9	98	394	1004
2000-13000	i	2.2	98	197	354	4.4	98	197	295	i	11.7	98	3445	22573 :	7.0	197	394	1240
13000-14000	1	1.6	98	197	295	4.5	98	197	394	:	11.1	98	2789	21490 ;	8.5	98	394	787
14000-15000	ł	1.7	98	98	197	4.0	98	197	295	:	12.1	98	3248	20703 :	9.8	98	394	468
15000-14000	-+-	0.9	78	98	197 ;	3.1	98	98	295		11.2	98	4036	19640	7.B	98	394	886
16000-17000	i	0.6	98	148	164	2.2	115	164	312		8.9	551	4593	18714	6.5	223	492	820
17000-18000	i	0.3	164	164	164	1.5	164	164	230	:	8.3	1312	12796	17881 .	5.8	328	328	820
18000-19000	i	1.5	164	164	164	1.7	164	164	180	:	11.2	558	15912	16667	9.8	164	328	755
19000-20000	1	0.3	164	164	164	0.6	164	164	329	:	7.5	1476	15092	15748 :	6.0	164	328	656

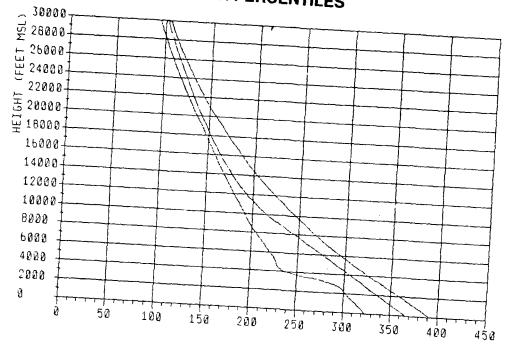
0000Z

BASE	,		DUCT	B RCENTIL	.ES :		SRLF THK PE	B RCENTIL	.ES	;		NORM THK P	AL ERCENT I	LES :		SUB THK PE	RCENTI	LES
FT MSL	1	%FRQ	10%	30%	90% :	%FRQ	10%	50%	90%		%FRQ	10%	50%	90%	%FRQ	10%	50%	90%
8FC~500		3.9	64	249	436	14.9	78	348	492	:	98.2	596	6135	35073 :	29.0	197	348	446
500-1000	1	0.5	197	295	394 :	1.9	98	295	1270	:	5.9	98	4134	34365 :	0.6	98	295	797
1000~1500	1	1.0	98	344	679	2.4	99	541	974	:	2.0	689	8661	34089	0.4	98	541	591
1500~2000	1	1.5	98	295	915 :	2.8	98	492	963	:	3.4	197	3347	33341 :	0.8	98	640	2362
2000-2500	1	1.2	98	295	669 :	2.2	98	492	1240	:	3.8	423	3199	20328 :	0.7	98	295	1161
2500~3000	ŧ	1.7	197	295	620 :	3.4	99	295	1093	:	3.2	99	2155	16683	1.2	325	689	1821
3000~3500	:	1.2	226	394	827	1.9	98	197	1043	:	3.7	98	1969	10197	2.2	98	394	1004
3500~4000	1	1.7	98	394	884	2.5	98	394	1004	;	4.8	98	1476	14705	2.4	98	492	1083
4000-4500	1	1.4	98	295	591 !	4.7	98	344	876	:	4.9	98	1378	12402 3	2.5	295	591	1073
4500~5000	1	3.7	98	295	591	6.9	98	295	787	:	9.0	98	2953	29712	3.5	98	295	591
5000-6000	7	9.4	98	295	591	13.7	98	295	886	;	22.0	98	4626	29344 :	6. Ú	98	394	886
6000 ~7000	1	5.7	197	295	394 :	10.4	98	295	689	:	16.7	138	2347	28577 :	5.8	197	394	984
7000-9000	1	4.3	98	295	492	8.6	98	295	689	;	13.1	98	2953	27592	6.5	98	394	984
8000~9000	:	4.4	98	246	394 ;	8.0	98	295	591	:	15.2	98	2165	26313 :	8.5	167	394	1778
9000-10000	. ! .	3.0	98	197	394 i	5.9	98	197	394		11.8	98	2658	25624	8.4	98	394	984
10000-11000	1	4.3	98	197	295 :	7.8	98	197	394	:	16.3	98	2805	24768	7.0	98	394	886
1000-12000	;	2.7	98	197	295 :	5.6	98	197	394		11.8	98	3593	23705	8.3	197	294	1063
12000-13000	ŧ	1.4	98	197	335 :	4.0	98	197	335	:	11.8	98	3445	22632 :	ن.9	98	194	286
3000-14000	t	1.9	78	148	295	5. 1	98	197	394		12.8	98	4248	21687	8.4	98	394	807
4000-15000	1	0.9	98	149	295 :	2.4	98	98	295	;	9.2	394	3937	20703 .	6.3	197	394	1.783
5000-16000	1	0.7	98	197	295	2.8	98	98	295		9.6	98	3215	19561	7.4	98	394	823
4000-17000	1	0.0	131	164	164 :	1.7	164	164	295		9.0	656	7218	18701	7.3	164	439	827
7000-18000	:	0.1	164	164	164	0.7	164	164	228	1	7.3	656	17061	17881 :	6.5	164	492	984
9000-19000	ı	1.3	164	164	164 :	1.8	164	164	328		13.2	820	15912	16635	10.3	164	328	820
9000-20000	1	0.1	164	164	164	0.3	164	164	164		6.3	1099	15092	15748	4.8	164	328	656

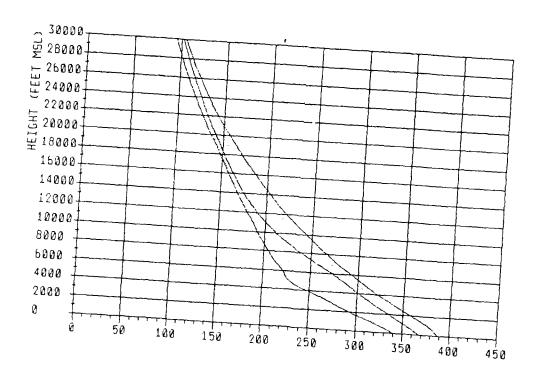
1200Z

FIGURE B-5-1-D

N PERCENTILES



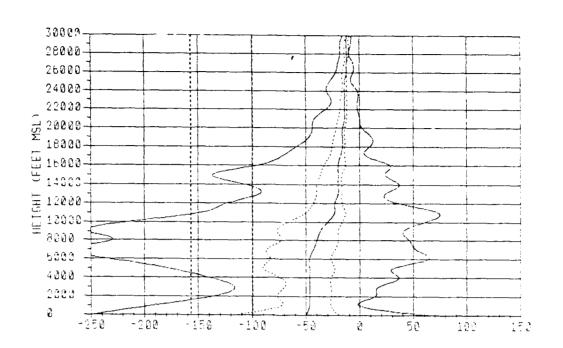
N (N-Units) 0000Z



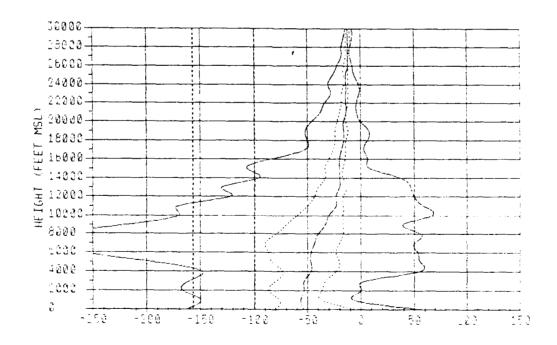
N (N-Units) 1200Z

FIGURE B-5-2-A B-75

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-5-2-B B-76

SANTO DOMINGO

WET-DRY TRANSITION

EGT FT MEL	18	N PERCI	ENTILES 50%	90%	99%	18	DMD:	PERCEN BOX	TILES SON		11	PERCENT DUCT i	SELE :	
SFC-500 500-1000 1000-1800 2000-2000 2000-3000 3000-3000 3000-3000 3000-4000 4000-4000	1332.96 1322.14 1318.33 1309.12 1299.09 1296.81 1289.06 1276.44 1261.92 1260.16	354.42 345.00 338.30 330.86 323.08 314.89 307.37 300.41 294.00 286.69	373.04 382.69 385.08 347.80 339.56 331.00 322.88 315.88 309.50 301.28	389.89 378.00 388.20 380.18 351.89 343.00 333.92 328.08 318.12 311.00	365.92 377.36 369.92 360.79 361.20 342.80 334.00 325.82	:-300.70 :-133.33 :-170.21 :-193.12 :-193.16 :-129.16 :-118.88 :-118.70 :-118.70 :-118.37	-172.81 -70.83 -72.81 -79.18 -77.08 -78.00 -70.83 -70.83 -72.91 -78.00	-60.41 -50.00 -50.00 -50.00 -50.00 -87.91 -47.91 -47.81 -45.85	4.17 -27.08 -28.18 -27.08 -27.08 -27.08 -27.08 -27.08 -27.08 -27.08	110.78 0.00 -7.62 10.42 13.21 10.65 10.42 32.02 33.33 46.35		20.5 i 1.2 ! 3.1 ! 2.7 ! 0.7 ! 0.7 ! 0.7 ! 1.2 ! 1.6 !	34.6 4.1 5.6 7.3 6.2 6.8 7.4 2.9 4.4 6.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	1.0 i 0.7 i 1.7 i 2.4 i 2.8 i 3.6 i 8.0 i
1000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1227.12 :219.76 :211.88 :203.10 :195.80	271.05 248.70 228.68 212.60 202.30	288.75 273.56 258.69 243.10 225.40	300.58 285.89 272.27 259.50 248.80	283.06 280.00 267.00	1-170.46 1-237.93 1-204.74 1-266.62 1-219.94	-87.50 -83.33 -83.33 -73.30	-47.81 -40.83 -43.36 -38.97 -38.09	-22.91 -27.08 -22.91 -20.08 -18.92	49.30 80.85 46.64 48.50 44.01	11	4.0 9.0 11.0 11.0	11.9 11.2 14.6 13.2	8.8 1 9.6 1 11.0 1 6.7 1
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1184.34 1178.30 1172.40	194.50 187.60 181.10 174.70 168.80	211.50 200.50 180.80 182.50 175.20	234.82 223.20 213.49 203.40 193.70	231.20 220.80 210.80	[-196.74 [-136.66 [-120.08 [-92.02 [-113.41	-60.02 -48.74 -43.36 -38.71 -38.70	-26.68 -23.44 -23.30 -20.05 -20.05	-18.66 -18.66 -18.66 -18.66 -16.66	16.66	11	8.7 3.2 2.3 1.6 3.9	9.5 7.0 5.5 2.3	7.7
18000-18000 18000-17000 17000-18000 18000-18000	1188.00 1180.90 1148.23	163.20 157.80 152.50 148.80 141.80	168.20 162.10 156.10 150.50 145.00	184.30 176 49 188.00 180.80 184.00		1-119.89 1-79.97 1-74.38 1-80.00 1-39.84	-33.33 -20.04 -27.96 -23.96 -22.03	-20.05 -18.04 -17.98 -18.01 -18.01	-16.66 -13.90 -13.90 -13.90 -13.90	5.88 7.87	11	2.7 0.8 0.7 0.8 0.0	8.2 : 2.3 : 1.4 : 0.8 :	0.5 (
22000-23000 23000-24000	130.88	137.40 133.00 128.70 124.10 120.00	140.30 135.80 131.40 129.90 122.50	148.00 141.40 138.64 131.00 128.00		1 -37.98 1 -26.48 : -28.04	-22.03 -20.00 -18.04 -17.98 -17.98	-16.01 -14.06 -13.98 -13.98	-13.98 -12.03 -11.95 -11.95 -11.95		11	0.0 ! 0.5 ! 0.0 ! 0.2 ! 0.0 ;	0.8 1	1.0 (
26000-27000 27000-26000 26000-28000	;111.50 ;107.30 ;102.98 ; 98.89 ; 95.29	118.10 112.30 108.20 104.60 101.20	118.40 114.50 110.40 108.40 102.80	121.40 117.00 112.70 108.40 104.70	125.00 119.90 115.10 110.30 106.20	1 -17.96	-18.01 -15.94 -14.06 -13.96 -12.03	-13.98 -12.03 -12.03 -12.08 -11.85	-11.98 -11.88 -10.00 -10.00 -10.00		11	0.0 1	0.0 1	1.6 1.2 1.0 0.0 0.8
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	91.66 : 88.16 : 84.45 : 81.25 : 78.93	97.90 94.60 91.00 87.90 89.70	99.60 98.20 92.70 69.30 66.70	101.20 97.97 84.40 90.70 97.70	95.30 91.40	1 -28.77 1 -16.01 1 -20.93	-12.03 -12.05 -12.05 -11.95 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97	11	0.0 1	0.0 1	0.8 ! 0.0 ! 0.0 ! 0.0 !

0000Z

FT MSL	1%	N PERCENTILE		99%	1 1 1 1 1 1	DMD 10%	B PERCENT SOX	ILES 90%	00×	II PER		OCCUR!	
#FC-500 500-1000 1000-1500 1500-2000 2000-2500 2500-3500	:264,85 :258,10 :255,10 :250,60 :245,75 :241,40 :238,40	380.18 372.2 360.00 364.6 341.80 358.0 332.88 347.3 324.08 338.7 313.87 328.0 303.78 318.6	374.87 387.08 387.08 388.80 5 348.19 340.06 330.50	784.84 378.82 370.40 381.58 381.28 340.40	(-131,28 (-122,01 (-158,38 (-171,01 (-148,00 (-150,00	-101.58 -77.08 -78.00 -81.25 -87.50 -83.33 -81.25	-58.25 -58.25 -58.25 -54.18 -52.08	18.88 -29,16 -33.33 -36.41 -37.50 -33.33 -33.33	72.81 8,37 -4.17 -14.62 0.00 4.12 4.17	1: 0. 1: 1. 1: 2. 1: 2. 1: 1.	8 7 6 2 9 0 6	15.8 3.6 4.4 7.8 8.7 7.6 7.6	20.8 i 2.4 i 0.4 i 0.7 i 1.3 i 1.3 i 2.8 i
3800-4000 4000-4500 4800-5000	1232.28 1228.20 1224 25	294.75 311.6 287.19 304.2 280.10 297.0	5 314.87	322.90	:-160.41 :-184.18 :-162.60	-77.08 -75.00 -72.81	-50.00	-33.33 -26.69 -16.66	8.25 41.86 74.87		6 6 7	8.3 t 8.2 t 7.2 t	3.1 1 4.8 1 9.1 1
5000-8000 8000-7000 7000-8000 8000-8000 9000-10000	:219.40 :211.70 :204.79 :197.44 :190.08	264.69 285.1 242.38 270.0 223.20 253.4 209.90 236.7 201.10 221.0	0 268.19 0 268.69 0 286.28	290.56 277.25 264.81	1-184.58 1-265.89 1-266.69 1-280.00 1-203.36	-82.55 -88.58 -88.57 -73.43 -86.66	-48.83 -43.76 -38.71	-22.81 -22.81 -18.82 -16.66 -16.66	52,08 58.80 58.64 53.38 48.74	7. 11. 23. 11.	9 1 2 1 7 t	12.8 13.6 18.4 10.3 11.6	10.2
1000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1178.87 1170.40 1184.27	184.10 208.6 187.00 187.6 180.80 188.0 174.10 180.6 168.30 173.4	0 220.20 0 209.90 10 199.90	229.63 219.00 209.80	-166.66 -187.71 -139.84 -118.92 -06.71	-56.64 -80.00 -43.36 -36.71 -33.33	-23.44 -23.30 -20.08	-16.66 -16.66 -16.68 -16.68 -16.66	68.66 50.94 43.36 44.30 23.30	11 3.	9 t 4 i	8.5 6.4 4.7 5.5 3.2	8.9 1
15000-16000 16000-17000 17000-16000 18000-18000 18000-20000	:147.39 :142.02 :138.80	182.80 187.1 157.50 181.1 152.20 155.6 148.80 150.1	10 172.99 10 165.10 10 159.60	184.42 178.18 188.31	1-106.60 1-70.23 1-48.03 1-83.98 1-44.88	-30.07 -20.04 -23.90 -23.90 -22.03	-17.86 -18.01	-16.66 -10.94 -13.98 -12.05 -13.96	3.38 7.47 4.06 8.08 -1.85	11 0. 11 0. 11 0.	5 2 2 6 0	4.7 1.8 0.2 1.8 0.2	3.2
2000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1122.51 1116.24 1113.76	137.10 140. 132.70 138. 128.40 131. 123.70 126. 119.70 122.	10 140.10 10 135.29 10 130.40	147.74 141.30 138.70	: -42.91 : -34.08 : -28.04 : -27.98 : -28.04	-20.00 -20.00 -17.96 -16.01 -16.01	-14.08 -13.98 -13.98	-13.98 -12.03 -11.95 -11.95 -11.95	-2.00 0.00 -3.98 -1.98	11 0. 11 0. 11 0.	0 1	0.0	2.4 2.6 1.7
25000 - 26000 26000 - 27000 27000 - 26000 26000 - 26000 26000 - 30000	102.20	115.70 118. 112.00 114. 107.80 110. 104.30 108. 100.90 102.	10 118.69 10 112.50 10 108.20	119.70 114.97 110.10	: -24.06 : -20.00 ! -17.86 : -17.86 ! -15.84	-16.01 -18.84 -13.88 -13.80 -12.03	-12.03 -12.03	-11.85 -11.85 -10.00 -10.00	-7.97 -8.07 -10.00 -8.08 -8.08	11 0.	0 0 0 0	0.0	0.2
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	: 88.20 : 82.07 : 79.03	97.60 99.6 94.40 98.3 90.60 92.6 87.70 89.3 85.50 86.5	0 97.80 10 94.30 10 90.80	99.10 95.40 91.50	: -14.66 : -24.98 ! -16.01 : -20.00 : -20.00	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.87 -7.87 -7.87 -7.87 -7.87	11 0.	0 0 0 0	0.0	•

1200Z FIGURE B-5-2-C B-77

SANTO DOMINGO

WET-DRY TRANSITION

THICKNESS STATISTICS

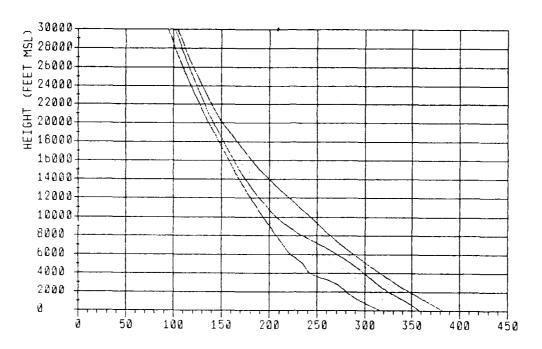
BASE	,		DUCT	S RCENTIL	E9 :		SRLA THK PE	REENTIL	66	:		NORM: THK PI	AL ERCENTI	LES .		SUB THI. FE	RCENTI	ES
FT MBL	i	XFRO	10%	50%	90%	XFRQ	10%	50%	90%	:	%FRQ	10%	50%	90% :	%FRO	10%	50%	90%
8FC-500	-+-	20.3	151	348	446	34.6	98	249	446	;	98.3	984	6693	34975 ;	19.1	98	348	350
500-1000	t	0.7	295	295	492 1	1.7	98	591	984	:	2.9	3130	689 0	34552	0.7	98	98	394
1000-1500	:	2,4	98	394	479 :	3.6	98	394	1083	:	2.4	1093	6595	31980 :	0.2	866	886	896
1500-2000	:	1.2	295	295	394 1	3.9	236	591	1535	:	5. 1	197	3888	8464 :	1.2	98	787	1476
2000-2500	1	0.7	98	295	295	4.4	276	640	1093	:	4.8	98	4970	21451 :	1.0	98	295	571
2500-3000	ŧ	0.5	295	443	391	2.2	98	492	689	:	6.3	541	2412	20850 :	1.7	98	787	2658
3000-3500	ł	0.2	295	295	295 :	1.5	98	689	666	:	3.6	98	2362	18603 :	1.5	98	295	886
3300-4000	1	1.2	98	197	492	1.7	98	394	886	;	2.7	256	4330	26779 :	2.2	295	689	1376
400 0-4500	ı	1.2	197	295	394	3.1	98	344	886	i	3.1	98	3051	11555	1.5	394	492	886
450 0-5000	1	2.0	98	295	591	4.7	98	344	945	:	11.0	98	4330	30250	4.4	98	295	689
900 0-4000	-;-	3.2	98	344	640 I	8.9	98	394	787	:	15.8	128	4970	29660 :	4.8	295	591	984
400 0-7000	1	9.7	98	295	492 :	9.4	98	295	689	i	12.3	98	2067	28380 :	5.7	167	541	1280
7000-9 000	t	8.9	99	295	492 :	11.4	98	197	620	i	19.4	98	2756	27691 :	7.3	98	394	1378
800 0-9000	1	11.4	197	295	394	11.4	98	295	591	;	17.6	98	5610	26805	6.8	98	394	1161
900 0-10000	1	6.2	177	295	492 :	11.0	98	295	394		16.0	98	1969	25723 :	5.3	98	295	984
0000-11000		4.5	98	295	492	8.2	98	197	492	:	18.4	99	7841	24935 ;	7.3	98	492	1748
1000-12000	1	3.0	98	197	295 :	5.9	98	197	394	1	11.4	217	4330	23498 :	5.7	98	394	846
2000-13000	;	2.3	98	197	384	4.5	98	197	394	i	7.7	98	2313	22868 .	4.8	98	394	965
3000-14000	t	1.6	197	295	295	1.8	98	197	197	:	7.0	98	2854	21923	4.8	98	394	1181
4000-15000	1	3.4	98	98	295 ;	4.8	98	98	295	:	8.2	98	2592	20604	5.5	197	541	1230
5000-16000		2.3	98	197	197 (4.5	78	98	295		9.5	98	14600	19718 .	5.0	78	394	1066
6000-17000		0.9	164	164	164	2.0	98	164	328	;	6.8	469	12878	18901	3.4	164	492	682
7000-18000	;	0.7	164	164	164	1.1	164	164	328	:	3.4	164	11730	17733 :	2.5	197	656	984
B000-19000	;	0.9	164	164	164	0.9	164	164	328	:	7.0	3018	15912	16864	5.2	164	492	919
9000-20000	•	0.0			;	0.0					3.1	591	15256	15682	2.6	164	328	755

0000Z

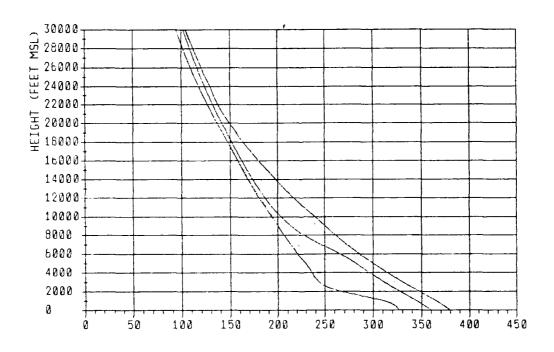
BASE	ſ		DUCT THK PE	S RCENTIL	.E8 1		SRLF THK PE	S RCENTIL	.ES ;		NORM THK F	AL PERCENT I	LES ;		SUB THK PI	, ERCENTII	LES
FT MBL	t	XFRO	10%	30%	90% 1	XFRQ	10%	50%	90%	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%
8FC-500		5.8	89	249	348 :	15.8	71	348	591	97.6	1197	6326	34946	25.8	249	348	446
500-1000		0.0			:	0.9	98	98	591 :	3.8	1220	5019	34601 :	0.7	295	394	886
1000-1500	1	1.3	98	197	689	3.1	98	492	784	2.7	98	2805	33794 :	0.2	295	295	295
1500-2000	- 1	1.6	197	394	591 :	5.3	98	394	837 :	2.9	98	2559	7480 :	0.7	98	197	591
2000-2500	1	2.0	197	295	591 :	4.2	98	197	986 :	6.4	149	3642	7362 :	1.1	295	1063	1161
2500-3000	1	1.3	197	344	797 (5.3	98	689	1427 1	5.1	1358	2543	32632 :	0.7	98	197	886
3000-3500		0.9	197	246	689 :	3.8	98	344	896 ;	3.8	98	1378	9304 :	2.0	98	295	689
3500~4000	:	1.3	197	295	394 1	1.3	98	197	591	6.2	98	1673	28672 :	2.0	98	295	965
4000-4500	1	1.6	197	295	295 ;	5. l	98	394	787 :	5.1	98	2362	31057 :	3.3	354	866	1250
4500-5000	1	3.3	98	295	531 (4.3	98	246	581	10.2	394	3642	30250 (5.4	78	394	1014
5000-6000	-+-	6.2	98	197	689 :	10.9	98	295	689 ;	16.4	236	2854	29857 :	4.9	197	394	1240
6000-7000	:	10.9	197	295	492 :	11.5	98	295	679 ;	16.6	197	1969	28577 ;	6.6	98	194	1033
7000-B000	1	11.3	197	295	394 :	14.0	98	295	571 :	20.8	98	2953	27593 :	6.8	98	591	1309
8000-9000	ŧ	10.0	98	295	492 :	13.0	98	197	512 :	22.3	98	3494	76904	9.1	98	394	1181
900 0-10000	1	7.2	98	295	394	9.4	98	197	423	14.3	98	5019	25821	7.4	98	344	1070
0000-11000		4.7	98	197	394	7.0	98	98	394 :	17.0	266	3512	24837	7.2	98	394	1024
1000-12000	1	4.3	98	246	394 :	6.4	98	197	394 .	11.5	374	4626	23754 :	6.4	197	394	689
2000-13000	:	3.0	98	295	394 :	4.3	98	197	354 :	9.5	98	1624	22671	5.3	98	443	1299
2000-14000	1	2.6	78	197	295 :	4.3	98	197	295	8.9	98	4429	21687	6.4	98	394	787
4000-15000	1	1.5	98	78	295	2.6	98	148	404	7.9	98	7086	20801 (4. Ú	98	394	965
S000-16000	-+-	1.3	98	197	197 ;	4.3	98	197	295 :	5.5	187	9022	19620 :	1.9	98	394	1158
4000-17000	:	0.2	164	164	164	1.5	98	164	328	4.7	869	18045	18901 :	3.2	164	492	912
7000-18000	1	0.2	164	164	164	9.2	328	328	328 :	2.3	1214	17553	17881	2.3	197	650	1115
8000-19000	:	0.4	164	164	164 :	1.5	154	164	164	6.8	1148	15912	16635	4.7	164	328	391
9000-20000		0.0				0.2	164	164	164	1.3	1640	15420	15748	1.5	164	728	820

1200Z

FIGURE B-5-2-D B-78



N (N-Units) 0000Z

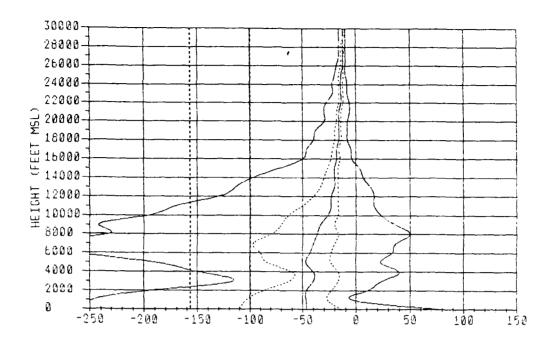


N (N-Units) 1200Z

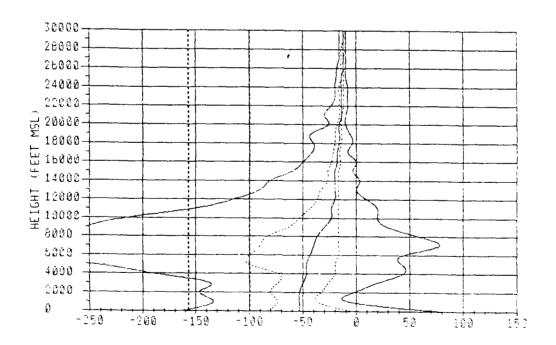
FIGURE B-5-3-A B-79

SANTO DOMINGO DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-5-3-B B-80

SANTO DOMINGO

DRY SEASON

PITMEL	1 18	N PERCENTILES	BOX	09X	18	DMDI 10%	PERCENTILES TON TON		PERCENT	OCCURRENCE : STALL !
870-800 800-1000 1000-1800 1800-2000 2000-2800 3800-3800 3800-3800 4000-4800 4800-8000	1328.63 1309.41 1273.93 1271.62 1288.02 1286.03 1241.33 1237.67 1234.57	346.18 384.00 336.48 336.88 328.08 346.08 719.88 739.00 311.42 329.88 303.88 321.00 287.25 313.80 281.88 307.80 284.28 301.75 278.23 286.08	376.06 387.18 389.88 781.69 342.80 333.28 320.08 318.00 311.08 304.80	378.04 368.69 369.04 349.46 340.88 331.66 324.19 317.04	[-543.76]-184.16]-228.41]-256.18 [-239.56]-160.41]-110.41]-120.08]-131.26]-185.87	-160.75 -72.80 -83.75 -110.41 -85.83 -77.08 -88.68 -60.41 -90.41 -68.68	-06.25 4.11 -43.75 -18.75 -40.83 -28.89 -50.00 -28.16 -45.83 -27.08 -43.75 -22.81 -41.66 -18.65 -41.66 -18.66	12.50 -2.83 -6.25 10.42 10.42 14.66 43.75 31.21	1 16.5 2.7 1 7.0 1 6.4 1 1 1 2.2 1 1 2.2 1 1 2.2 1 1 3.0 1 1 3.0 1	28.5 17.3 4.3 2.4 8.1 1.0 13.6 1.8 8.9 1.6 6.3 3.1 1.6 4.3 2.5 3.3 7.2 7.1
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1235.52 1222.20 1214.05 1208.82 1186.80	268.08 284.58 241.10 269.80 224.80 282.40 211.80 283.00 202.20 218.10	288.28 280.88 288.38 288.70 242.80	246.88 274.78 263.08	1-220.42 1-282.76 1-309.86 1-243.36 1-283.25	-87.50 -90.78 -96.61 -79.95 -66.66	-48.83 -22.81 -43.75 -22.91 -39.97 -19.82 -38.71 -18.82 -33.33 -18.66	33.33 42.41 53.10	6.8 12.7 14.7 11.4	14.0 : 5.8 : 17.1 : 18.5 : 9.7 : 13.9 : 5.8 : 11.0 : 7.4 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1184.70 1178.70 1172.40	184.80 204.80 187.20 188.30 180.80 187.30 174.40 178.80 188.40 173.00	231.10 216.20 204.30 192.40 161.79	228.90 217.77 207.00	!-208.11 !-150.00 !-120.94 !-106.64 !-93.36	-60.02 -48.61 -34.71 -33.33 -29.95	-26.86 -16.66 -23.30 -16.66 -20.05 -16.66 -20.05 -16.66 -20.05 -16.66	13.26 : 20.08 : 6.77 :	7.6: 1 0.1: 1 2.7: 1 2.3: 1 1.7:	8.4 : 7.2 : 7.1 : 5.3 : 5.1 : 5.6 : 4.2 : 3.6 : 2.5 : 5.2 :
18000-18000 18000-17000 17000-18000 18000-18000 18000-20000	1188.90	182.80 188.80 187.80 181.40 192.80 188.80 148.80 180.40 142.00 148.00	173.80 187.40 180.80 184.80 148.80	171.88	: -83.28 ! -43.92 ! -42.83 : -40.00 ! -31.95	-28.89 -32.46 -31.85 -30.00 -18.04	-19.92 -16.86 -17.96 -15.94 -17.96 -14.06 -16.01 -13.96 -16.01 -15.98	-8.48 : -7.87 : -7.87 :	0.3 0.1 0.0 0.1	1.0 1.8 0.7 2.0 1.3 1.3 1.3 0.0 0.7
20000-21000 21000-22000 22000-25000 25000-24000 24000-28000	1130.40 1128.73 1120.67	1\$7.40 140.30 1\$2.80 1\$8.70 128.70 1\$1.30 124.10 128.70 120.00 122.30	143.70 138.80 134.10 128.60 124.80	138.60	1 -30.00 1 -28.01 1 -21.88	-17.98 -17.98 -18.01 -18.01 -18.01	-18.01 -13.98 -14.06 -13.98 -13.98 -12.03 -13.98 -11.95 -13.98 -11.95	-7.97 : -7.97 : -7.97 :	1 0.0 1	0.0 : 1.2 : 0.1 : 0.9 : 0.0 : 1.0 : 0.4 : 0.1 : 0.6 :
27000-28000 28000-28000	111.84 107.80 103.40 98.40 85.80	116.10 116.30 112.30 114.40 108.20 110.30 104.60 106.40 101.20 103.00	120.60 116.80 112.80 108.25 104.70	114.10 100.60	1 -18.04	-14.06 -14.06 -13.98 -13.96 -12.03	-13.88 -11.88 -12.03 -11.88 -12.03 -10.00 -12.03 -10.00 -11.88 -10.00	-10.00 ! -10.00 ! -10.00 !) 0.0 : : 0.0 : : 0.0 : : 0.0 :	0.0 0.0 0.0 0.3 0.0 0.5 0.0 0.0
3000-31000 31000-32000 32000-38000 33000-34000 34000-38000	1 82.40 1 88.08 1 89.80 1 82.34 1 80.00	\$7.80 \$9.80 \$4.80 \$6.20 \$0.80 \$2.70 \$7.70 \$9.20 \$8.40 \$6.80	101.22 97.90 94.40 90.70 87.70	98.90 98.40 91.50	; -16.01 ; -21.95 ; -19.04 ; -20.00 ; -17.96	-12.03 -12.03 -12.03 -12.03 -11.98	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.08	-7.97 -7.97 -7.97	: 0.0 ; ! 0.0 ! ! 0.0 !	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0000Z

not 77 mel	1 1 1%	N PERCENT	TILES SOX SOX	••x	1 1%	DNE 10x	H PERCEN	TILES POX	99X	11	PERCENT DUCT :	OCCURR SRLR	ENCE :
800-1000 1000-1800 1800-2000 2000-2800 2800-3000	1336.87 1524.11 1317.02 1309.69 1288.89 1244.80 1243.34 1238.90 1236.40	344.02 36 338.19 34 328.08 36 319.06 33 308.69 33 299.58 33 292.00 36 284.20 26	14.89 373.7 56.69 367.8 16.89 301.0 12.20 342.2 13.08 333.2 14.80 324.1 16.88 316.4 19.88 308.2 19.80 302.0	8 378.60 9 386.87 0 358.71 8 349.37 8 340.18 9 331.28 4 323.66	1-204.16 1-127.08 1-116.68 1-143.76 1-163.80 1-143.75 1-153.33 1-160.00 1-160.41 1-231.80	-77.08 -72.91 -72.91 -78.18 -79.18 -77.08 -72.91 -72.91	-48.83 -54.18 -54.16 -54.16 -64.18 -52.08 -50.00 -50.00 -47.91 -45.83	18.38 -29.18 -33.33 -35.41 -37.50 -33.33 -27.08 -22.91 -19.92 -16.68	110.03 16.66 -6.28 -6.33 -9.33 4.17 12.80 33.33 33.33	11 11 11 11 11 11 11	8.3 0.3 0.3 1.3 2.2 1.7 1.3 2.0 2.3 8.0	10.4 : 3.7 : 6.3 : 6.3 : 6.2 : 6.2 : 7.1 : 12.5 :	24.9 1 2.7 1 0.9 1 0.7 1 0.9 1 1.6 1 3.0 1 5.0 1 6.5 1
7000-8000	1229.00 1220.70 1215.10 1208.60 1198.70	238.60 26 220.00 26 209.30 23	00.86 292.2 84.19 278.0 85.10 265.3 25.80 252.8 11.50 238.2	0 204.30 0 272.10 0 200.13	1-268.82 1-320.96 (-267.66 1-300.11 1-234.31		-42.75 -43.75 -38.56 -36.59 -29.85	-10.66 -10.66 -16.66 -16.66 -13.74	43.75 41.66 69.13 56.64 38.97		12.5 : 15.6 : 14.6 : 13.3 : 9.8 :	20.2 ! 18.7 ! 18.7 ! 18.9 ! 10.9 !	11.7 : 12.0 ! 12.5 ; 10.6 : 9.2 !
10000-11000 11000-12000 12000-13000 13000-14000 14000-13000	1148.10 1179.00 1172.50	188.70 1: 180.40 1: 173.80 1:	01.40 228.3 02.20 212.7 04.80 200.7 08.30 189.2 071.70 178.9	0 225.44 0 213.81 0 203.80	1-200.00 1-160.00 1-106.65 1 -80.08	-43.2% -38.59 -30.07	-23.30 -23.30 -20.06 -20.08 -18.62	-18.66 -16.66 -16.66 -16.66 -16.66	19.92 10.66 13.26 2.60 0.00	11	8.4 : 4.5 : 2.6 : 1.5 : 0.7 :	0.1 : 7.0 : 4.1 : 2.8 : 2.1 :	0.5 5.1 3.0 2.9 2.2
18000-16000 18000-17000 17000-18000 18000-18000 18000-20000	1158.10 1151.00 1148.10	187.40 10 182.10 10 148.80 14	88.00 172.6 80.40 146.3 58.10 168.8 48.70 184.0 44.30 147.8	0 177.80 0 168.92 0 160.84	1 -48.01	-22.88 -21.98 -20.00	-19.92 -17.96 -16.01 -18.01 -16.01	-18.66 -10.94 -15.94 -13.98 -13.98	-3.26 -3.26 -6.02 -5.86 -0.01	11	0.3 : 0.1 : 0.0 : 0.4 : 0.0 :	1.1 0.3 0.4 0.8 0.0	2.2 1.9 1.8 1.1 0.7
	1128.84 1128.24 1120.04	182.70 1: 128.40 1: 128.79 1:	18.60 142.8 16.10 138.1 10.60 133.4 26.30 128.8 22.00 124.4	0 141.10 0 136.10 0 131.86	1 -27.86	-18.01 -18.01 -18.01	-15.94 -13.84 -13.86 -13.88 -13.96	-13.88 -13.99 -12.03 -11.85 -11.85	-8.05 -8.05 -8.05 -8.05 -8.05	11	0.0 0.0 0.0 0.0	0.0 1	0.4 0.4 0.8 0.8 0.4
27000-28000	1111.40 1107.50 1103.00 1 89.04 1 89.44	112.20 1 108.00 1 104.40 1	18.00 120.2 14.20 116.2 10.10 112.3 06.30 108.1 02.80 104.5	0 118.38 0 114.00 0 109.40	-18.04 -17.88 -17.34 -18.01 -18.01	-13.98 -15.08 -13.98	-12.03 -12.03 -12.03 -11.95 -11.95	-11.98 -11.98 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	11	0.0	0.0 :	0.1 i 0.1 i 0.0 i 0.0 i
\$1000-\$2000 \$2000-\$5000 \$5000-\$4000	1 92.00 1 88.70 1 86.10 1 81.90 1 79.60	94.40 90.80 87.80	00.80 101.1 00.10 97.0 02.60 94.4 00.10 90.7 00.60 97.7	0 98.80 0 98.30 0 81.80		-12.03 -12.03 -12.03	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.08	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 0.0 0.0 0.0	0.0 I 0.0 I 0.0 I	0.1 0.0 0.0 0.0

1200Z FIGURE B-5-3-C B-81

SANTO DOMINGO DRY SEASON

THICKNESS STATISTICS

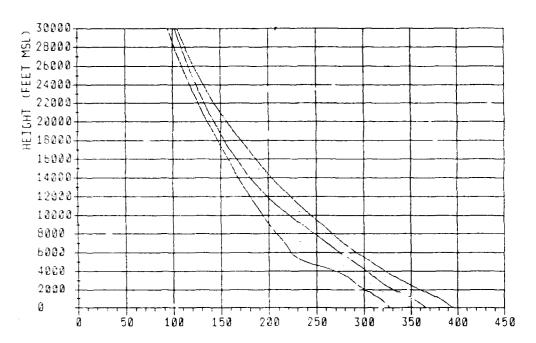
BASE	;			RCENTIL			SRLA THK PE	RCENTIL	.ES	1	NORM THK F	AL ERCENT I	LES	1	SUB THK P	ERCENTI	LES
FT MSL	:	%FRQ	10%	50%	90% ;	%FRQ	10%	50%	90%	: XFRQ	10%	50%	90%	I %FRQ	10%	50%	90%
SFC-500	1	15.5	151	348	446	29,5	56	295	446	98.2	842	5708	34778	1 17.3	249	348	492
500-1000	:	2.1	148	295	394 1	2.7	98	344	1299	3.7	98	6693	16654	0.3	295	295	295
1000-1500	:	5.4	98	394	591 :	7.0	98	492	984	4.3	226	6152	7942	0.4	197	443	1083
1 50 0-2000	:	5.2	266	394	591 ;	8.4	98	197	886	8.7	98	4527	7480	1.0	197	797	1181
2000-25 00	:	2.4	295	394	719 :	5.2	98	344	1083	10.0	591	4429	8481	0.9	394	1093	1772
2500 -3000	:	1.0	295	394	591 :	2.4	98	295	679	6.4	157	2953	7323	1 1.9	78	344	1329
3000- 3500	1	0.3	591	591	591 :	1.2	90	344	689	4.6	98	1083	31766	1 1.6	98	295	1122
3800-4000	:	1.0	98	295	591	1.0	98	295	787	2.5	99	2707	29040	1 2.1	98	394	1043
4600-45 00	:	1.0	197	394	591 :	2.1	98	394	886	3.3	157	2264	9911	1.0	492	591	787
4800 -5000	:	2.4	167	295	522	6.1	98	295	787	7.7	197	3937	30250	1 5.3	99	295	915
9000-6000	;	7.9	197	295	492	10.8	98	295	787	17.6	98	4232	29847	1 3.9	98	443	1033
6000 -7000	:	10.1	197	295	492 :	15.4	98	295	400	17.9	394	6447	29872	5.2	98	492	1378
7000-8 000	:	12.8	197	295	492 :	14.7	98	197	591	20.9	197	9466	27998	6.2	98	492	1024
@000~9 000	;	8.8	118	295	394 :	11.3	98	295	591	20.6	98	15847	27002	6.8	98	394	935
9000-10000	:	7.6	197	295	394 :	8.8	98	197	492	15.3	197	25132	25899	5.3	98	394	905
10000-11000	:	6.6	98	295	394	6.5	98	295	394	15.9	394	8694	24935	4.9	98	295	1220
11000-12000	:	3.0	98	197	295 :	5.9	98	148	394	9.7	224	23114	23852	4.2	78	591	1152
12000-13000	:	2.6	98	197	305 :	4.6	98	197	394	8.2	78	22130	22956	3.5	78	293	1083
13000-14000	:	2.2	98	197	295 :	3.6	98	148	394	6.6	98	18209	21765	1 2.6	78	394	1319
14000-15000	1	1.7	98	197	295	1.9	98	197	374	4.6	551	20210	20801	1.9	98	443	738
15000-16000	;	0.3	197	197	197	0.9	98	98	197	3.0	928	17455	19915	1.2	98	591	820
16000-17000	;	0.1	328	258	328 :	0.7	98	131	328	2.0	361	5249	18972	1.4	138	394	820
17000-18000	:	0.0			:	0.1	328	328	328	1.4	2887	17471	17881	0.7	328	329	454
18000-19000	:	0.1	164	164	164 1	1.3	164	164	164	2.3	1591	15912	16792	1.0	164	164	820
19000-20000	:	0.3	164	164	164 1	0.0				1.3	492	14928	15748	0.6	164	164	492

0000Z

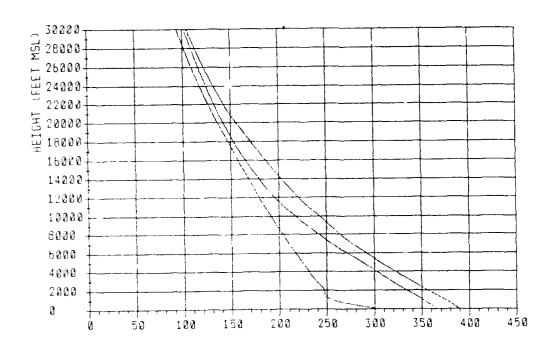
			DUCT				SRLF					NORM				SUB		
BASE	;			RCENTIL				RCENTIL		:			ERCENTI				RCENTI	
FT MBL	:	%FRQ	10%	50%	90% (%FRQ	10%	50%	90%	: 	XFRQ	10%	50X	90% 1	%FRQ	10%	50X	907
SFC-500	1	5.3	56	295	394	15.4	98	348	492	:	98.0	1334	5709	34778 1	24.9	197	348	449
500 -1000	;	0.0			:	1.3	98	295	1476	!	4.9	1752	4330	9468 1	0.6	98	344	994
1000-1500	:	0.3	295	344	394 :	1.7	96	591	1240	į.	1.9	79	3642	21966 1	0.4	78	197	394
1500-2000	:	1.3	98	295	686 :	3.5	148	591	984	1	1.7	374	2165	6279	0.6	78	541	797
2000-2500	;	1.7	128	344	689 :	2.4	98	295	709	l l	4.3	591	2559	7982 1	0.6	591	884	1290
2500- 3000	ŧ	Ú.9	98	197	295 :	4.3	98	295	758	;	4.0	98	2165	5512	1.0	78	689	984
3000-3500	- 1	1.2	98	246	394 :	3.2	98	295	650	:	4.2	98	1476	5216	1.7	98	591	1043
3500-4000	1	1.6	98	295	374 :	3.2	98	295	659	;	5.0	98	1181	4488 :	3.3	78	591	1101
4000-4500	:	1.9	98	295	709 :	5.8	98	295	956	:	5.9	98	1378	5265	3.7	98	591	994
4500-5000	1	5.5	98	295	492	9.6	98	295	787	:	12.9	98	2165	30250	5.5	197	295	479
3000-6000		10.5	197	295	492 ;	15.0	98	295	591	;	25.6	98	2953	29857	9.4	78	394	984
6000-7000		12.8	197	295	492 :	15.7	98	197	689	1	23.0	98	2854	29774 1	7.7	98	394	1142
7000-8000	1	12.5	148	295	492 !	15.1	98	197	492	:	24.1	98	5610	27888	0.1	295	492	1083
8 000 -900 0	:	11.3	197	295	394 :	14.0	98	197	492	;	23.9	197	7333	26953	7.0	78	344	1083
9000-10000	:	6.7	98	295	394	9.2	98	197	394	1	14.6	98	25132	25919 :	6.3	78	394	864
0000-11000	-;-	6.7	98	197	394 ;	7.7	98	197	295	1	15.9	98	24148	24935 (4.8	78	394	108
1000-12000	:	4.3	98	197	374 :	6.3	98	98	295	1	9.9	364	23114	23951 1	2.7	78	394	108
2000-13000	:	2.3	98	197	295 :	3.0	98	98	295	:	6.4	98	22091	22868 :	2.2	78	295	807
3000-14000	:	1.2	98	197	295 :	2.5	98	98	305	:	5.1	394	21195	21884 :	1.9	197	394	1474
4000-15000	1	0.7	98	197	295 :	1.8	98	197	344	t .	3.7	187	14896	20811	1.5	118	394	1004
0000-16000	:	0.3	98	148	197	v.8	98	197	197	:	2.6	1946	19521	19807	1.6	78	394	1004
17000	1	0.1	131	131	131 :	0.3	164	230	295	:	2.2	1240	17635	18862	1.1	328	476	454
7000-19 000	;	0.0				Ů. 4	164	144	328	:	1.4	3527	17143	17537 1	1.4	328	328	95
9000-19 000	1	0.4	164	164	164	0.4	164	164	164	:	1.9	15912	16076	14815 1	0.7	164	164	320
7000-2 0000		0.0				0.0				:	0.7	4593	15420	13748	0.7	164	492	65

1200Z

FIGURE B-5-3-D



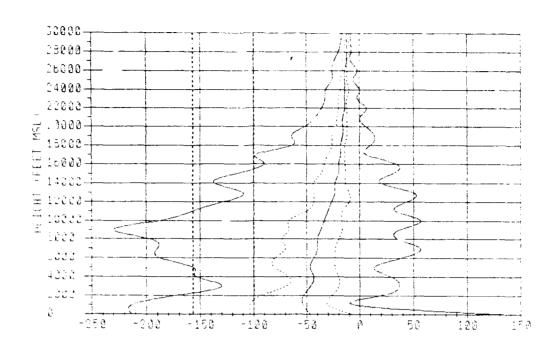
N (N-Units) 0000Z



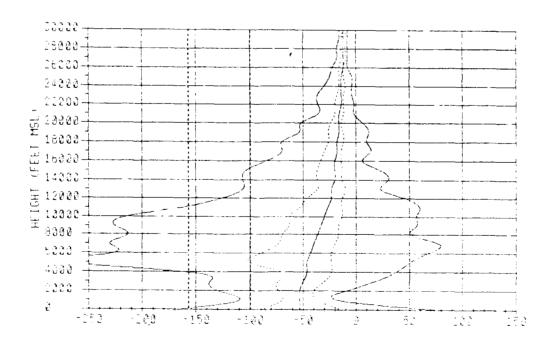
N (N-Units) 1200Z

FIGURE B-5-4-A B-83

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-5-4-B B-84

SANTO DOMINGO

DRY-WET TRANSITION

FireL	1%	N PERCENTILES	90%	90x	1%	DMDE 10%	PERCENTILES 50% 50%		PERCENT	OCCURRENCE BRLR SUB
SPC-800 800-1000 1000-1800 1800-2000 2000-2000 2000-3000 5000-3800 3000-4000 4000-4800	1384.11 1328.23 1321.16 1314.94 1308.30 1298.89 1281.64 1284.16 1274.08	384.80 372.00 348.80 385.18 387.48 386.08 326.89 347.08 320.28 336.80 312.28 326.28 308.80 317.28 284.71 311.88 281.18 308.88 283.87 299.88	368.60 377.75 369.76 360.21 350.02 340.06 323.06 318.00 308.68	391.78 381.70 372.38 361.92 361.72 341.28 333.00 324.78	1-266.62 1-146.83 1-216.08 1-244.76 1-186.83 1-163.10 1-129.71 1-129.06 1-161.21	-128.16 -77.08 -83.75 -121.66 -102.08 -83.33 -72.91 -66.66 -66.75	-80.00 20.83 -48.83 -17.81 -50.00 -27.08 -82.83 -31.25 -58.28 -29.18 -52.00 -22.81 -50.00 -18.75 -48.83 -18.75 -48.75 -18.75	25.00 : -2.08 : -4.17 : 10.08 : 18.78 : 41.88 : 27.82 : 27.08 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17 : -4.17	: 13.3 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.7 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1 1.6 : 1	28.4 ! 28.3 ! 5.6 ! 4.0 ! 8.6 ! 0.8 ! 11.1 ! 13.3 ! 2.7 ! 8.1 ! 4.0 ! 2.9 ! 5.9 ! 2.7 ! 6.1 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.0 ! 4.
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1228.14 1219.96 1215.16 1209.93	288.28 288.18 280.80 273.88 284.30 289.88 218.30 248.80 207.20 232.20	298.88 283.88 271.19 288.89 246.90	290.48 277.82 288.84	1-101.35 1-100.57 1-100.66 1-203.30 1-100.66	-79.16 -79.16 -89.22 -73.43 -86.86	-48.83 -22.81 -43.70 -23.30 -41.88 -23.30 -38.00 -16.88 -36.68 -13.28	47.06 : 83.25 : 38.58 :	[3.3 ! 0.0 ! ! 6.1 ! ! 8.6 ! ! 6.3 !	10.7 : 8.1 : 10.9 : 7.4 : 8.4 : 8.4 : 13.2 : 8.1 : 12.2 : 8.4 :
	1188.30 1179.20 1172.80	187.10 218.60 188.40 208.80 182.60 185.65 178.80 187.20 189.80 178.30	234.60 223.20 2.2.70 203.80 188.10	230.48 220.17 210.88	:-206.64 :-183.36 :-116.66 :-118.68 !-128.64	-66.66 -80.00 -43.36 -43.36 -38.87	-33.33 -16.66 -26.69 -16.68 -23.44 -7.08 -23.30 -10.03 -20.05 -13.28	33.33 46.70 43.36	1 7.6 (1 5.1 i 2 3.1 i 3 3.1 i 2 3.8 i 1 2.8 i	12.0 20.4 6.7 10.8 12.2 4.1 12.0 6.4
	1156.20	163.80 171.10 188.30 164.80 182.80 188.00 147.20 182.00 142.20 148.80	188.60 178.80 170.31 182.10 184.88	186.10 178.40 188.80	1-108.01 1-84.86 1-74.81 1-87.87 1-44.47	-38.71 -38.88 -28.04 -28.01 -24.06	-20.08 -13.41 -20.00 -13.86 -18.04 -13.86 -17.86 -12.03 -16.01 -13.98	23.63 6.62 13.88	1 2.0 1 1.3 1 0.0 1 0.8 1 0.0	5.3 : 8.9 : 3.8 : 6.4 : 1.8 : 4.6 : 1.3 : 7.6 : 0.3 : 4.5 :
2000-21000 21000-22000 22000-25000 25000-24000 24000-25000	1130.27	137.60 141.20 138.10 136.80 128.80 132.10 124.30 127.40 120.10 122.80	140.80 142.40 137.40 132.00 126.70		1 -80.00 1 -40.00 1 -34.70 1 -30.00 1 -28.04	-22.03 -20.00 -20.00 -18.04 -17.86	-16.01 -12.03 -18.94 -11.98 -13.98 -11.95 -13.98 -11.95 -13.98 -11.95	1.95 4.08 -0.78	1 0.0 1 1 0.0 1 1 0.3 1 1 0.0 1	1.1 3.4 0.0 3.4 0.3 4.2 0.0 3.4 0.3 2.1
28000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1100.00	118.30 118.70 112.80 114.80 108.30 110.70 104.80 108.70 101.20 103.10	121.80 117.80 113.10 108.70 104.80	118.40 110.40	-28.01 -22.03 -21.98 -20.00 -16.01	-16.01 -16.01 -14.06 -13.88 -13.88	-15.98 -11.85 -12.03 -11.85 -12.03 -10.00 -12.03 -10.00 -11.95 -10.00	-0.20 -7.87 -8.08	1 0.0 1 0.0 1 0.0 1 0.0	0.0 i 1.1 i 0.0 i 2.7 i 0.0 i 0.8 i 0.0 i 0.0 i 0.0 i 0.3 i
3000-31000 31000-32000 32000-33000 33000-34000 34000-38000	1 82.48 1 88.10 1 88.70 1 82.30 1 60.12	87.80 89.80 84.50 86.20 80.80 92.80 87.70 89.20 85.50 86.50	101.40 97.80 94.40 90.70 87.60	102.80 \$8.80 95.30 91.40 88.20	1 -28.86 1 -17.86 1 -25.88	-12.03 -12.03 -12.03 -12.03 -11.96	-11.95 -10.00 -11.95 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -3.05	-7.97 ; -7.97 ; -7.97 ;	0.01	0.0 1 0.3 1 0.0 1 0.0 1 0.0 1 0.0 1 0.0 1 0.0 1 0.0 1 0.0 1

0000Z

NOT FT MBL	! ! 1%	W PERC	ENTILES SON	90%	99%	1 1%	DMD 10%	M PERCEN	TILES BOX	8 8 %	11	PERCENT DUCT :	OCCUR!	#UB (
SFC-800 800-1000	1334.38	389.08 348.77	371.00	383.37		1-250.21	-108.84 -72.91	-54.16 -54.16	10.08	100.00	11	8.8 : 0.0 i	18.2	
1000-1600	1255.00	341.06	385.69	307.25	376.28	1 -87.81	-72.81	-54.10	-33.33	-7.94	1.1	0.5	0.8	
1800-2000	1201.38	332.87	347.56	356.37		1-137.69	-72.81	-86.28	-37.50	-16.66	1.4	0.8 :	2.6	
2000-2800	1247.84	324.00	339.10	340.69		1-137.80	-78.00	-86.25	-39.59	-12.80	1.1	0. a i	4.5	
2800-8000	1243.45	314.52	329.70	340.36	346.25	1-142.21	-75.00	-64.16	-37.50	-2.08	- ! !	1.8 1	4.0	
3000-3800 3800-4000	1239.63	308.58	320.86 312.86	330.87		1-137.50	-77.08 -72.91	-62.08	-33.12 -26.68	18.66 25.00	11	1.0	4.5	
4000-4800	232.08	290.50	308.28	318.80		-167.48	-46,66	-47.91	-22.91	42.08	11	2.3	4.3	
4800-8000	1229.19	283.56	298.50	300.14		-196.88	-79.16	-45.83	-19.21	70.36	1 1	4.6	11.6	.
9000- 9 000	1225.47	265.75	280.69	287.28		1-254.16	-95.63	-47.81	-22.91	46.87	11	11.6	18.1	10.6
6000-7000	1216.30	244.00	269.75	281.76		1-218.71	-88.71	-48.75	-20.83	69.75	1.1	8.7 1	15.8	
7000-8000	1209.65	229.00	294.70	288.08		1-228.16	-73.30 -89.82	-40.10	-18.75	80.08	11	8.5 1	11.8	
9000-10000		205.80	226.60	244.40		1-241.88	-63.28	-38.71 -33.33	-16.66 -13.41	43.38 68.29	11	8.0 !	11.6	
10000-11000	1190.00	195.60	214.10	232.80	241.00	1-196.61	-63.28	-29.95	-13.41	51.68	1:	7.8	10.6	13.2
11000-12000		188.40	202.78	321.20	229.10		-80.00	-26.69	-10.03	50.84	1.1	4.5	6.6	
12000-18000		181.70	193.00	211.40		1-118.88	-43.36	-23.30	-13.28	34.93	1.1	2.4	8.4	
18000-14000		178.10	184.50	201.94		1-100.00	-36.71 -36.71	-23.30 -20.08	-13.20 -13.28	23,30 24,86	11	2.1 :	4.5	10.1
	**					- +					- • • •			1
18000-16000		168.40	169.80	184.50		-56.68	-33.33	-20.08	-13.41	19.92	1.1	1.4	4.3	
18000-17000		188.10	163.60	176.60	185.10	1 -77.46	~31,95 -30,00	-19.92 -17.98	-13.98 -13.98	12.14	11	0.9 1	1.6	
18000-18000		148.80	181.10	160.30	168.53	-09.26	-28.01	-16.01	-12.03	18.01	1:	0.9	1.9	
18000-20000		141,90	148.20	182.90	100.10	-62.03	-20.01	-16.01	-13.98	0.02	11	0.0	0.6	3.8
20000-21000	1134.62	137,20	140.40	148.10	153.05	1 -43.98	-22.03	-16.01	-12.03	1.95	: - • • -	0.0	0.2	2.7 1
31000-33000		132.70	138.70	140.80	140.50	3 -33.71	-20.00	-14.08	-12.03	-2.03	1.1	0.0 1	0.8	
22000-23000		128.40	131.30	136.60	140.99	1 -37.83	~20.00	-13.98	-12.03	-1.96	1.1	0.01	0.0	
23000-24000		128.70	128.00	130.40	135.09	-32.02	-17.86	-13.98	-11.98	-3.98	11	0.0 :	0.2	
24000-25000				120.00	120.10		-18.01	-13.98	-11.05	-3.98	.	0.0 :	0.2	1.7 !
28000-36000		118.70	116.10	121.00		1 -22.03	-16.01	-13.90	-11.95	-3.90	t :	0.0	0.0	
2000-27000		112.00	114.20	116.80	119.50		-10.94	-12.03	-11.95	-7.07	1.1	0.0	0.0	
27000-28000		107.80	110.20	112.66	114.80	1 -18.04	-14.08 -13.88	-12.03	-10.00 -10.00	-7,97 -7,97	1:	0.0 :	0.0	
28000-20000		100.01	102.80	104.70		-10.01	-12.03	-11.95	-10.00	-10.00	1.1	0.0	0.0	
	- •					- +					- • • -			1
30000-31000		97.60	88.40	101.10	102.30		-12.03	-11.98	-10.00	-7.97	11	0.0	0.0	
\$1000-\$2000 \$2000-\$3000		94.30 90.70	96.00 92.50	97.80 94.20	98.80	1 -28.01	-12.03 -12.03	-10.00	-10.00 -10.00	-7.97 -7.97	11	0.0 :	0.3	
33000-34000		87.80	69.10	90.80	91.30		-12.03	-10.00	-10.00	-7.97	: :	0.0	0.0	
34000-38000		88.39	00.50	87.50		-21.77	-10.00	-10.00	-7.97	-7.97	1.1	0.0	0.0	

1200Z FIGURE B-5-4-C B-85

SANTO DOMINGO

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE	:		DUCT	S RCENTIL	.E8 :		SRLA THK PE	RCENT II	E8 :		NORM	AL ERCENTI	. 50	,	SUS THE P	RCENT I	
FT MSL	:	%FRQ	10%	50%	90% :	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	XFRG	10%	50%	90x
SFC-500		13.3	98	249	351 ;	26.4	98	253	449	97.6	710	5216	34077	25.3	249	348	462
500-1000	:	1.3	295	295	787	2.4	98	492	1476	3.3	177	7530	33292	0.0	244	3-6	762
1000-1500	1	5.9	98	295	591 :	7.7	98	344	974	4.5	98	2067	14075	0.5	98	98	394
1500-2000	1	5.9	98	295	561 ;	12.5	98	394	896 :	5.3	600	5512	8888	0.8	295	591	374 391
2000-2500	:	2.9	98	394	571 :	4.5	98	394	884 :	13.3	709	3199	12746	1.9	98	541	984
2500-3000		1.3	98	295	394 :	2.4	98	295	787	7.2	98	3740	9586	2.7	98	591	984
3000 -3500	:	0.0			;	1.6	98	591	1378 :	4.8	78	3347	10532	3.5	98	394	844
3500-4000	:	1.1	98	246	295 :	1.6	98	884	984 :	4.8	98	2215	8770	2.9	78	394	1220
4000-4500	;	2.3	197	295	689 ;	1.1	98	244	689	4.5	98	1919	16715	2.4	100	492	429
4800 -5000	ı	1.0	98	295	689 :	4.9	98	591	984	10.6	709	5512	30250	4.7	98	394	787
8000-6000	:	2.8	98	295	492 ;	7.4	98	295	876 :	13.7	98	4331	29489	3.0	 98	394	
6000 -7000	:	5.1	217	394	492 :	8.6	98	295	591	10.9	98	1673	29390	4.3	254	394	1595
700 0-8000	:	5.1	98	394	581 :	7.9	98	295	492	13.5	98	2461	27691	5.4	98	394	728 1142
8000-9000	:	7.4	98	295	394 :	11.4	98	295	591	16.8	295	4134	26697	4.9	197	394	984
9000-10000	!	5. 1	98	295	394	10.7	98	197	492 1	14.2	98	3347	25723	6.4	98	394	984
0000-11000	-	7.1	98	197	394 :	10.2	98	197	492	20.1	197	3249	24957	4.9	98	394	
1000-12000	:	4.1	99	197	394 :	7.4	98	148	394	12.7	98	2608	23783	8.7	98	489	944 1545
2000-13000		1.8	98	98	295 1	5. 1	98	98	364 :	13.5	98	3347	22770	7.4	98	394	1043
3000-14000	:	3.3	138	197	571	4.1	98	98	394	11.7	98	4987	21667	7.4	295	492	1073
4000-15000	;	2.3	98	197	492 :	5.9	98	148	295 1	9.4	99	5315	20673	6.4	98	394	976
5000-16000	;	2.0	98	197	197 ;	4.6	98	98	197 1	11.2	649	4363	19817				
6000-17000	:	1.0	164	164	329 :	3.8	138	164	328	8.9	223	4626	19832	5.6	99	492	984
7000-18000	1	0.0			1	1.8	164	328	328	6.1	459	10171	17793	4.1 3.6	164	329	751
8000-19000	t	0.8	164	164	164	1.3	164	164	328	8.1	574	15912	16486	7.1	164	492	722
9000-20000		0.0		-		0.3	164	164	164	3.4	2199	15256	7 = 4 G +	/.1	164	329	473

0000Z

BASE FT MSL	:	%FRO	DUCT THK PE	rs ERCENT II 50%	-EB :	XFRO	SRLF THK PE 10%	RS ERCENT II 50%	. ES 90%	%FR:		AL PERCENT: 50%	(LES : 90% :	XFR@	BUB THK PE 10%	RCENT I SOX	LEB 90%
8FC-500		6.8	143	253	466 :	18.2	77	322	399	97.	2049	6552	35224	23.5	249	348	420
500-1000	:	0.0			1	0.5	98	14B	197	4.		4232	346B0	0.9	98	197	787
1000-1500	;	0.5	886	1427	1969 :	0.5	591	591	591	1.		4626	7579 1	0.3	98	98	78
1500-2000	:	0.3	295	295	295 :	2.3	118	394	689	0.		7874	11713	0.0			
2000-2500	i	0.5	197	295	394 :	2.5	98	394	945	2.		2244	4911	1.0	295	492	697
2500-3000	1	1.3	98	295	394 :	3.5	98	492	1427	3.		2165	24164	1.0	98	492	994
3000-3500	;	φ. 8	197	295	394	2.5	295	541	778 ;	4.		3199	31884 (1.6	197	295	1476
3500-40 00	:	1.0	78	197	689 :	2.3	98	492	884	4.		2264	7086	3.0	295	591	1900
4000-45 00	:	1.8	98	295	689 :	2.5	99	394	679	4.1		591	28919	3.8	98	591	925
4500-5000	:	4.3	98	295	591	7.7	98	394	876	11.	4 98	3240	25476 ;	6.0	98	295	905
5000-6000	;	8.9	197	295	591	13.6	98	295	591	22.	9 98	2461	29601	6.6	295	394	499
6000-7000		6.4	98	295	492	12.2	98	295	728	20.	98	2362	28616	6.4	197	394	1093
7000- 8 000		7.8	98	295	394	9.4	98	197	591	14.	3 98	2362	27514 (7.8	98	591	945
8000-9000	:	6.4	177	295	492 :	9.6	98	197	591	18.	3 266	2988	26935	7.1	197	591	1053
9000-10000		7.8	98	197	394	6.1	98	197	492	11.	98	2018	25673	7.5	98	443	984
10000-11000		6.1	98	246	394 ;	9.6	78	98	522	19.	207	3593	24935	7.8	98	394	1132
11000-12000	;	4.0	98	197	305	6.1	98	197	295	15.		2854	23656	8.9	128	394	1083
12000-13000	;	2.1	98	295	394 :	4.7	98	197	295	10.	98	4494	22711	4.5	98	394	1171
13000-14000		1.9	98	98	197 :	₹.0	98	148	394	10.	98	2986	21490 1	7.5	98	394	984
14000-15000	1	1.9	98	148	197	3.5	98	197	295	Θ.	7 98	3937	20772	4.5	98	394	1073
15000-16000	+-	1.4	96	197	295 :	4.0	99	98	302	9.	9 98	3412	19907 :	4.0	98	394	797
14000 17000	-	0.9	164	164	164	1.4	131	197	328	4.		14520	18701	4.5	164	459	984
17000-18000		0.5	164	164	154	1.9	164	164	328	5.		11647	17783	3.5	164	492	1017
19000-19000		ŭ. 9	164	164	.64	1.9	164	164	164	7.		15912	16536	4.5	164	656	820
19000-20000		0.0		- • •		0.5	164	164	164	3.		15092	15748	2.9	144	492	953

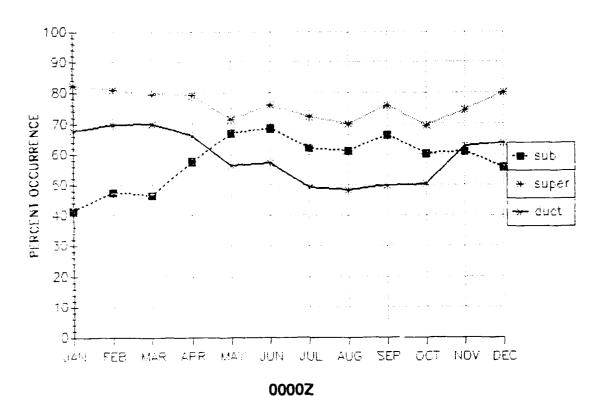
1200Z

FIGURE B-5-4-D

B-86

SANTO DOMINGO MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



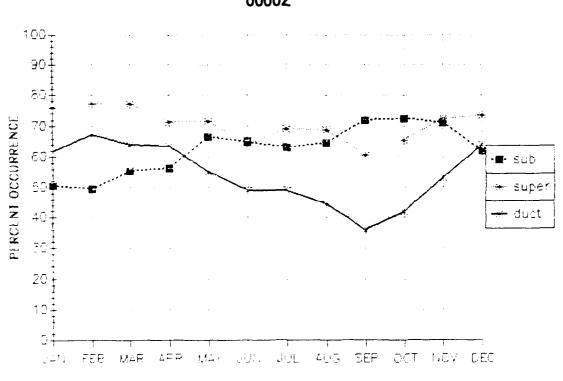
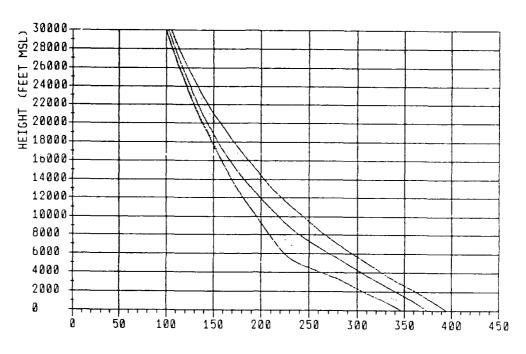
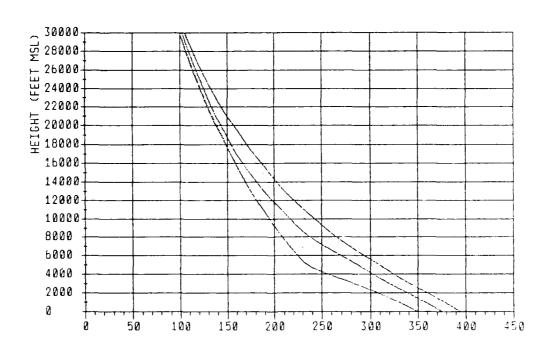


FIGURE B-5-5 B-87

1200Z



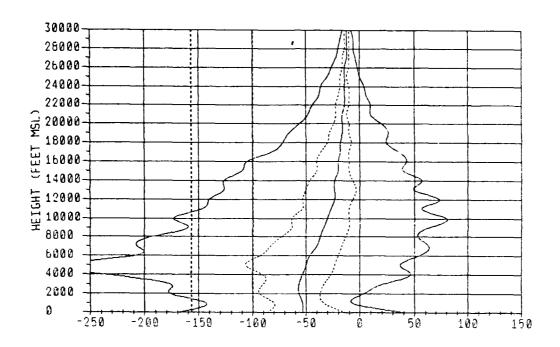
N (N-Units) 0000Z



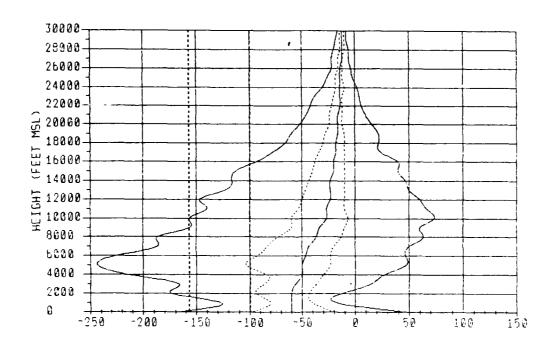
N (N-Units) 1200Z

FIGURE B-6-1-A B-88

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-6-1-B B-89

FOT FT MSL	18	N PERCENTILES	80%	00×	i in	DND 10%	H PERCENTILES SON SON	00%	PERCENT	OCCURRENCE STEEL
#FC-800 50U-1000 1000-1800 1800-2000 2000-2800 2800-3000 3000-3800 3000-4000	1300.18 1344.62 1335.43 1325.70 1314.19 1302.75 1282.43 1282.71	367.78 379.68 356.88 371.69 350.38 363.77 341.50 355.50 321.50 346.50 321.50 336.00 311.56 325.60 302.00 316.69 302.00 316.69 302.00 306.28	380.38 382.38 374.20 386.20 307.19 347.08 338.69 328.19 320.08	390.08 381.28 373.23 383.84 383.78 343.38 334.84 328.78	1-203.96 1-120.16 1-120.52 1-120.52 1-127.00 1-177.00 1-186.66 1-186.96 1-213.94	-100.00 -77.08 -76.00 -83.33 -83.76 -83.76 -89.68 -87.60 -87.60	-43.75 10.42 -56.28 -31.25 -54.16 -33.33 -56.25 -35.41 -56.25 -37.50 -56.26 -37.50 -56.27 -29.16 -54.16 -29.16	78.00 -6.28 -4.17 -8.33 0.00 8.28 20.23 31.28 38.88	1 0.0 i 1 1.1 i 4 2.0 i 1 2.4 i 3.6 i 3.6 i 4.6 i	13.7 24.2 3.6 0.6 5.7 0.9 6.9 0.9 9.0 1.3 11.1 2.6 6.1 5.6 7.2 4.0
#800-8000 8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	:287.80 :238.80 :223.80 :215.80 :207.40 :200.40	282.30 298.78 280.89 288.89 241.80 289.75 229.80 254.00 218.30 238.80 208.80 228.30	301.00 294.88 271.00 256.88 243.40	309.80 292.88 279.19 265.66	1-260.37 1-276.06 1-206.36 1-206.64 1-189.92	-93.75 -108.25 -91.72 -83.33 -73.30 -83.28	-80.00 -27.08 -80.00 -22.91 -43.78 -20.08 -38.87 -18.68 -36.89 -13.28 -30.07 -10.05	51.56) 36.26 ! 56.25 ! 62.50 ! 60.02 ! 64.66 !	1 15.4 ! ! 9.6 ! ! 6.2 !	10.4 8.7 20.2 7.8 10.6 0.2 14.7 10.6 13.0 12.7 6.4 13.6
12000-13000 13000-14000 14000-15000	:180.40 :180.10 :273.80 :187.80	199.20 218.40 191.10 206.40 193.60 197.30 178.60 198.90 170.20 180.10	232.00 221.80 212.00 203.80 198.40	229.77 219.00 209.80 201.13	I-109.92 I-146.74 I-139.97 I-133.33 I-126.68	-03.26 -03.38 -00.00 -00.00 -43.36	-29.96 -10.03 -26.69 -10.03 -23.30 -3.39 -23.30 -3.39 -23.30 -9.90	73.30 63.28 73.30 66.64 60.00	1 4.9 1 4.1 1 4.2 1 3.5	10.1 16.5 8.5 14.6 8.1 16.0 8.8 16.6 7.0 18.2
15000-16000 16000-17000 17000-18000 18000-18000 18000-20000	:188.80 :181.80 :148.10 :141.40	164.40 172.50 158.80 165.60 153.30 156.60 147.60 152.70 142.60 148.60	187.20 178.60 171.30 163.60 188.70	185.00 178.70 168.30	!-108.88 !-103.98 !-80.00 !-70.00 !-62.03	-39.97 -39.97 -32.61 -29.04 -27.96	-20.08 -8.80 -20.00 -10.00 -18.04 -10.00 -17.88 -10.00 -16.01 -10.00	46.61 42.58 32.03 27.86 22.03	1 2.0 I 1 0.5 L 1 0.2 I 1 0.1 I	8.8 : 14.4 : 4.3 : 13.8 : 2.1 : 11.8 : 1.6 : 14.4 : 1.0 : 9.0 : 0.4 : 8.2 :
21000-22000 22000-23000 23000-24000 24000-28000	: 132.40 : 128.10 : 123.40 ! 119.40	133.80 138.90 129.30 132.40 124.70 127.80 120.50 123.30	144.80 139.00 133.29 127.80	148.70 142.80	1 -47,96 1 -43,98 1 -36.01 1 -33.98	-22.03 -21.95 -20.00 -18.04	-18.01 -10.78 -14.08 -10.00 -13.88 -10.00 -13.88 -10.00	12.03 i 8.08 i 4.08 i 3.98 i	0.0 0.0 1 0.1 1 0.0	0.2 i 7.8 i 0.2 i 7.1 i 0.8 i 0.7 i 0.1 i 4.7 i
28000-27000 27000-28000 28000-28000 28000-30000	1111.80 1107.85 1104.10 1100.80	112.80 118.20 108.70 111.10 108.00 107.00 101.70 103.80 98.40 100.10	118.80 113.90 109.40 108.80	120.60	-28.01 -22.03 -18.04 -18.01	-18.01 -16.01 -13.98 -13.98	-13.08 -11.98 -12.03 -10.00 -12.03 -10.00 -11.98 -10.00	-3.03 i -3.96 i -8.02 i -7.97 i	1 0.0 1 1 0.0 1 1 0.0 1	0.0 i 2.0 i 0.0 i 2.0 i 0.0 i 0.7 i 0.0 i 0.8 i
32000-33000	1 94.40 1 90.90 1 87.70 1 68.60	98.20 98.80 91.60 93.20 88.30 88.70 88.20 97.00	90.40 94.90 91.00 87.90	98.80	-14.08 -28.01 -27.96 -22.03	-12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -6.08	-7.97 -7.97 -7.97 -7.97	0.0 1	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0

0000Z

HGT FT MSL	1 1 1%	N PERC	ENTILES 50%	90%	99×	!	1%	DND 10%	E PERCEN	TILES 90%	98X	11	PERCENT DUCT	OCCURR SRLR	
SFC-500 500-1000	1356.75	370.19	381.38 371.38	390.19 381.75	397.28				-56.25 -60.41	6.25	102.08	11	6.0 ; 0.6 i	22.6 1	
1000-1500	1338.46	380.28	362.25	372.56	378.75			-78.16	-60.41	-39.50	~14.58	- !!	0.8 1	2.7 !	
1800-2000	1326.31	340.78 331.00	383.38 344.18	363.75 354.69	370.82			-01.25 -89.58	-08.33 -60.41	-41.66 -43.75	-18.28 -22.91	11	1.4 3.1	9.4	
2800-3000	302.00	319.30	333.38	344.56	301.88				-68.33	-43.78	-4.17	ii	2.0 1	12.2	
3000-3800	1289.20	308.38	327 19	774.80	341.84			-89.88	-88.25	-39.58	7.46	11	2.3	9.0	
3800-4000	1276.78	290.00	314.38	326.06	333.44				-64.16	-\$3.55 -29.10	27.08 20.83	11	3.2 1 4.0 I	7.1	
4000-4800 4800-5000	1261.77	290.00 279.69	308.06 298.22	318.06 310.69	328.80 318.00				-82.08 -80.00	-26.00	39.00	- 11	4.6	7.9	
5000-6000	:233.60	250.56	285.44	299.56	300.45	1-280		-100.00	-60.00	-25.44	43.78	-++	12.7 (19.2	8.0
6000-7000	1223.62	240.80	267.78	283.88	291.89	1-216	. 33	-93.75	-48.83	-22.91	49.76	11	9.6 1	17.6	
7000-8000	:215.40	228.10	261.90	269.00	278.05				-41.66	-19.02	47.67	11	6.3 7.1	14.4 1	
8000-9000 8000-10000	1207.20	218.70 206.40	236.80 224.35	284.70 241.50	284.00			-70.08 -80.02	~36.59 ~30.07	-15.41 -10.05	63.28 63.28	11	4.3	9.4	18.7
10000-11000	-+	198.10	214.80	230.50	240.10	-+		-80.02	-26.69	-0.04	73.30	-++	8.1 1	9.0	18.0
11000-11000		190.90	205.40	220.70	229.00				-28.69	-9.90	66.69	- 11	4.0	8.3	
12000-13000		183.30	196.30	211.30	218.80				-23.44	~10.08	56.64	1.1	4.4 1	7.2 1	
13000-14000		178.40	187.60	202.80	209.17				~23.30	-9.90	52.34	11	3.8	7.2	
14000-18000	:167.80	170.00	179.30	193.90	200.11	1-111		-40.10	~20.05	-9.90	46.61	(1 -++	3.2 (6.2 (18.9
15000-16000	:162.30	164.20	171.50	185.90	192.20				~20.06	-10.03	30.07	1.1	2.7	8.7 1	
16000-17000		156.70	184.60	178.40	184.80				~20.00	~11.98	37.80	11	0.3	3.0 t	
17000-18000		183.20	187.90 182.00	170.50	175.90			-32.03 -28.04	-17.96 -18.01	~10.00 ~10.00	27.98	11	0.2	1.0	
19000-20000		142.70	148.30	188.80	180.90				~18.01	-11.98	17.96	11	0.2	0.7 1	
20000-21000	:130.60	138.00	141.40	149.60	184.30	-6:	1.95	-23.88	~10.01	-11.90	15.84	11	0.0 1	0.4	7.4
21000-22000		133.60	138.70	143.70	147.90		2.03		-18.94	-11.98	8.05	1.1	0.0 1	0.4	
22000-23000		129.20	132.20 127.60	130.00	142.00		0.00 5. 99		-13.98 -13.98	-11.96 -10.00	8.02 2.03	11	0.0 !	0.1	
24000-25000		120.40	123.00	127.20	130.00		. 00		-13.98	-11.85	1.00	ii	0.0 i	0.0	3.6 1
25000-28000	1118 30	116.80	118.90	122.40	126.00	25	3.98	~16.01	-13.98	-11.95	-3.86	-++	0.0	0.0	1.8
28000-27000		112.70	118.00	117.90	120.30		. 98		-12.03	-11.98	-4.04	11	0.0 i	0.0	
27000-28000		108.80	110.90	113.50	115.60				-12.03	-10.00	-0.02	- 1.1	0.0	0.0	
28000-29000		108.00	108.90	109.00	110.60				~12.03 -11.95	-10.00 -10.00	-7.97 -7.97	11	0.0	0.0 1	0.4 1
29000-30000	-+							-13.00	-11.90	-10.00	-,	-++			1
30000-31000		98.30	99.90	101.60	102.80				-11.98	-10.00	-7.97	1.1	0.0 !	0.0	0.1
31000-32000		98.10	98.60	98.20	99.20 95.70				-10.00	-10.00 -10.00	-7.97 -7.97	11	0.0 1	0.0 1	0.1
32000-33000 33000-34000		91.50 88.30	93.10 89.60	91.00	91.70	-2			-10.00	~10.00	-7.97	11	0.0	0.0	
34000-38000		46.10	87.00	87.90	88.40				-10.00	-8.05	-7.97	1.1	0.0 1	0.0	0.0 1
	-														

1200Z FIGURE B-6-1-C B-90

THICKNESS STATISTICS

BASE FT MBL	:	%FRQ	DUCT THK PE 10%	S RCENTIL 50%	ES :	%FRQ	SRLR THK PE 10%	RCENTIL 50%	-E8 90%	; 1	%FRQ	NORMA THK PE 10%	AL ERCENT I 50%	LE8 90%	:	XFRQ	SUB THK PE 10%	RCENT II	.E8 90%
8FC-500		5.3	89	384	402	13.7	76	384	689	+-	98.9	1467	5214	16132	1	24.2	90	384	402
500-1000	;	0.5	98	344	591 (0.8	98	197	1230	:	2.6	98	4134	23464	1	0.3	197	571	994
1000-1500	:	0.7	98	492	709	2.6	98	640	1171	:	2.3	90	3642	24272	3	0.4	98	541	1280
1500-2000	•	1.4	256	394	689	4.6	98	591	1083	ı	2.5	98	4331	21867	1	0.4	98	295 591	3150 1181
2000-2500	•	1.7	98	394	489	4.8	98 98	640	1093		4.6	98	2654	12933		1.1	126 98	591	1101
2500-3000	- 1	2.6	197	394	620 :	6.4		295	984 994	•	7.4	98	3150	14705		1.5			984
3000-3500	•	1.8	98	295	689	4.3	98	295			6.4	128	2559	16647	1	2.3	207	591	994
3500-4000	•	2.7	98	295	591	4.0 5.2	98	394	984	•	5.3	98	2264	16155	1	2.0	98	492 541	964
4000-4500	- 1	3.1	. 98	394	689		98	492	984		6.0	98	2264	12015	:		246 197	394	729
4500 5000		4.3	157	295	591 :	6.1	98	197	489	: 	7.0	98	2362	24639	·	3.1	14/	374	/ 20
5000-6000	1	11.8	197	344	591	18.4	98	295	797	1	23.3	98	4626	29561	1	6.5	99	492	1053
6000-7000	:	7.5	98	295	492 :	12.0	98	295	689	1	18.6	98	3543	26479	;	6.7	98	394	984
7000-8000	:	6.2	98	295	492 :	11.6	98	295	591	1	17.6	98	3051	27297	:	7.7	197	394	1083
8000-9000	- }	5.9	98	295	394 :	10.2	98	295	591		17.2	90	1772	14403	ı	9.5	197	394	1152
9000-10000	;	4.3	98	197	394	6.9	98	197	492	:	14.0	78	1921	25457	1	9.6	78	394	984
10000-11000		5.5	 98	197	394	9.2	98	197	394	+-	18.6	98	2215	24729	+- .	10.7	197	492	984
11000-12000		4.5	98	197	295 :	7.4	98	197	394	i	15.0	98	1969	23656	i	11.2	78	492	1083
12000-13000		3.8	98	98	295	8.4	98	197	295	i	17.2	98	1476	22277	1	13.4	98	492	984
13000-14000		3.9	98	98	197 :	7.7	98	197	295	i	19.0	98	1970	21510	i	13.4	98	394	884
14000-15000		3.4	98	197	197	6.6	98	98	295	t	16.4	98	3248	20703	;	9.2	148	394	884
15000-16000	-+-	2.3	98	98	197 :	4.8	98	197	295	+-	12.6	98	2756	19420	-	11.1	99	394	953
16000-17000		1.8	98	164	230	3.8	131	164	328	•	13.7	295	3445	18701	i	9.1	164	492	912
17000-18000		0.5	164	164	164	2.1	164	164	328	÷	10.2	328	6397	17717	i	6.7	164	328	820
18000-19000		0.2	164	164	164	1.6	164	164	328	į	13.8	492	7054	16733	i	11.6	164	328	820
19000-20000		0.1	164	164	164	1.0	164	164	328		7.2	328	5987	15584		7:1	164	328	820

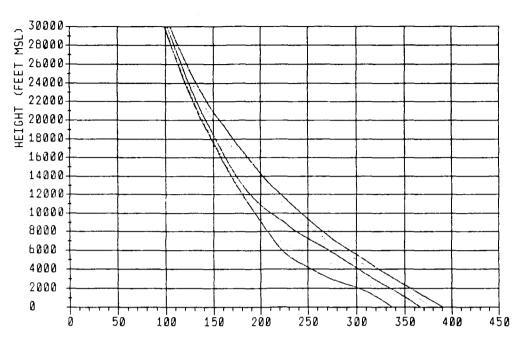
0000Z

BASE			DUCT	S RCENTIL	. ·		SRLF	RCENTI				NORM		. =-	•	SUB		
FT MSL	:	¥550		50%		W C C. C				•			ERCENTI				RCENTI	
P, Mac	·+-	%FRQ	10%		90%	%FRQ	10%	50%	90%	:	XFRQ	10%	50X	90%	XFRQ	10%	50%	90%
9FC-500	1	6.0	89	340	482	22.6	98	384	591	i	97.9	1280	5600	18964	17.9	197	384	482
500-1000	;	0.0			ï	1.2	98	148	1152	ŧ	5.7	443	7579	34384	0.2	98	492	492
1000-1500	:	0.5	98	197	591 :	1.3	98	591	1457	:	2.6	1575	5610	21037	0.3	98	197	1474
1500-2000	:	1.3	98	394	659 :	4.1	98	689	1339	1	1.2	98	4921	14784	0.3	98	394	984
2000-2500	;	2.3	98	394	591 :	5.7	98	591	1083	;	3.3	98	2854	13091	0.5	394	443	689
2500-3000	:	1.7	78	394	591 ;	6.4	98	492	1083	1	6.7	492	2461	9666	0.9	266	489	1141
3000-3500	:	1.7	197	394	591 :	3.6	98	394	1083	:	6.0	99	3051	31925	1.5	99	394	907
3500-4000	1	2.2	197	394	787 :	3.5	98	492	884		5.0	98	1969	29660	2.4	78	591	1290
4000-4500	t	2.8	98	394	689 :	4.4	98	492	874	:	5.3	98	2362	30742	2.5	98	591	945
4500-5000	1_	2.8	98	295	591 :	4.8	98	295	689	:	6.5	98	2165	30270	2.9	98	295	591
5000-6000	1	11.5	98	295	591 ;	17.2	98	295	787		21.6	98	4921	29561	4.7	197	492	984
6000-7000		7.3	98	295	492 :	14.1	98	295	689	;	18.4	99	3593	29577	6.9	197	492	784
7000-8000	:	5.3	98	295	463 :	10.5	98	295	591		17.0	98	3248	27691	6.3	177	492	1101
8000-9000	:	6.2	98	295	394	9.8	98	295	492	:	15.8	98	2264	26569	10.3	129	492	1280
9000-10000	1	3.6	98	197	394	7.6	98	197	394	ı	14.8	98	1870	25526	8.9	98	394	984
0000-11000	:	4.5	98	197	295 :	8.9	98	197	394	*-	18.9	98	1969	24679	12.0	98	394	1083
1000-12000	:	4.4	98	197	295 :	7.4	98	197	394		16.5	98	2264	23656	11.7	98	394	884
2000-13000		4.1	98	197	295 :	6.0	98	197	295		15.9	98	2067	22671	10.1	98	394	984
3000-14000	;	3.5	98	98	197 :	6.9	98	197	295	1	15.4	99	2165	21697	10.4	98	394	984
4000-15000	1	3.2	98	98	197 ;	6.0	78	98	295	:	14.2	78	1772	20584	10.5	98	394	884
5000-16000	;	2.6	98	98	197 :	5.3	98	78	295	+-	13.6	98	3297	19817	9.5	98	394	797
A000-17000	:	1.0	98	164	328	2.7	98	164	328		12.4	328	5413	19932	7.8	164	459	827
7000-18000	1	0.3	164	164	164	1.4	164	164	246		8.4	410	4101	17717	é. 4	164	320	984
8000-19000	1	0.2	164	164	164	1.8	164	164	295	į.	11.1	328	15512	16733	8.9	164	492	656
9000-20000		0.2	164	164	164	0.6	164	164	295	•	6.6	492	14928	15749	5.9	144	328	820

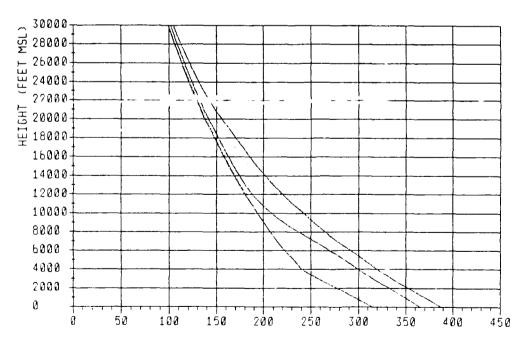
1200Z

FIGURE B-6-1-D

B-91



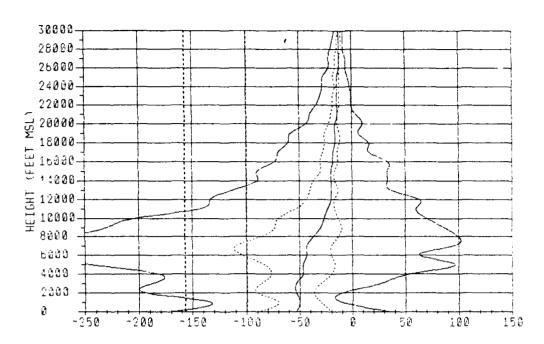
N (N-Units) 0000Z



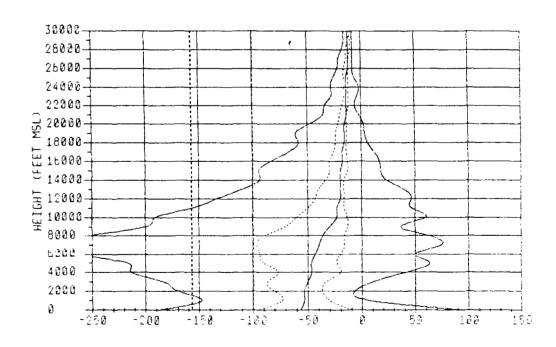
N (N-Units) 1200Z

FIGURE B-6-2-A B-92

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-6-2-B B-93

WET-DRY TRANSITION

Pictor.	1 1%	N PERCENTILES 10% 60%	90%	98X	1 1%	DMD:	M PERCENTILES BOX BOX	00x	PERCENT	OCCURRENCE :
SFC-800 800-1000 1000-1800	1342.16 1354.70 1328.05	387.80 371.83 348.82 382.88 342.19 388.80	384.80 378.80 388.78	380.85	1-204.29 1-110.41 1-110.41	-108.33 -72.91 -70.83	-80.00 0.00 -62.08 -29.18 -80.00 -29.18	02.80 -12.80 -10.42	11 5.4 1 11 0.4 1 11 0.7 1	19.2 : 16.8 2.6 : 0.3 2.2 0.3
1800-2000 2000-2800 2800-3000 5000-3800	1320.06 1310.81 1284.66 1278.01	338.28 347.78 328.89 338.88 518.78 \$30.08 304.72 320.38	\$41.02	388.34 348.78	1-145.78 1-187.17 1-206.25 1-189.28	-70.83 -87.80 -100.00 -83.35	-80.00 -28.16 -84.16 -33.33 -84.16 -38.41	-0.25	11 4.2 1 11 4.0 1	4.4 ! 0.3 ! 9.7 ! 0.9 ! 11.6 : 1.6 !
3800-4000 4000-4800 4800-8000	270.40 1200.06 1249.67	298.94 312.19 288.88 304.88 281.19 287.88	\$25.18 \$10.34	331.24 323.66	1-103.33 1-171.01 1-177.06	-77.08 -78.00 -72.81	-82.08 -33.33 -80.00 -27.08 -80.00 -20.83 -48.83 -18.88	22.91 50.00 39.58 56.33	11 3.6 1 11 2.9 1 11 3.7 1 11 3.6 1	7.6 1 3.2 1 5.4 1 5.7 1 6.1 1 6.6 1 7.9 1 9.2 1
8000-8000 8000-7000 7000-8000 8000-8000	1234.98 1222.47 1214.30 1208.10	265.47 265.66 240.70 270.66 221.10 265.70 206.80 256.30 201.50 221.60	283.88 270.08 288.28	291.21 277.66 264.75	1-268.91 1-304.25 1-313.29 1-276.69	-83.33 -103.38 -110.02 -86.71 -70.05	-40.03 -10.78 -43.70 -22.91 -41.66 -19.92 -36.71 -13.28 -29.86 -10.03	87.04 82.74 96.81 93.28 78.95	1: 10.6 : 10.2 : 11 17.3 : 11 18.3 : 1	13.2 10.6 10.6 11.1 22.7 14.0 19.2 15.4 14.6 13.6
10000-11000 11000-12000 12000-12000 12000-14000 14000-16000	192.40 188.80 179.30 172.90	194.40 207.40 187.30 188.80 180.90 188.90 174.40 179.40 188.80 172.80	2\$1.30 220.60 210.80 201.20	240.48 229.70 218.40 208.78	1-188.71 1-143.38 1-129.85 1-110.02	-66.68 -80.00 -40.10 -39.97 -33.33	-23.44 -16.66 -23.30 -16.66 -20.05 -16.66 -20.05 -16.66 -20.05 -16.66	83.28 71.78 48.66 33.33	11 7,6 1 11 4.1 1 11 3.9 1 11 2.0 1	12.1 ! 13.4 ! 7.6 ! 10.3 ! 6.6 ! 9.2 ! 6.2 ! 9.6 ! 3.4 ! 9.3 !
15000-16000 16000-17000 17000-16000 18000-18000 18000-20000	1161.80 1166.80 1161.81 1148.70	163.00 168.80 187.70 181.40 182.80 188.70 147.00 180.80	184.10 178.90 188.63 180.80	181.70 184.00 178.88 188.30		-30.07 -29.98 -26.01 -24.08 -23.98	-19.92 -13.41 -17.96 -13.98 -16.01 -13.98 -16.01 -11.90 -16.01 -13.98	30.07 29.69 11.62	11 1.8 11 0.7 11 0.7 11 0.4	3.2 ! 7.8 ! 1.9 ! 6.6 ! 1.7 ! 6.4 ! 0.4 ! 7.7 !
20000-21000 21000-22000 22000-23000 28000-24000 24000-28000	136.50 131.80 127.70 122.80	157.60 140.50 133.10 137.70 128.80 131.30 124.20 128.90 120.20 122.60	147.20 141.70 130.50 131.00	183.60 147.20 141.20 138.80	1 -45.88 1 -36.01 1 -31.98 1 -26.01 1 -27.96	-22.03 -20.00 -18.04 -17.86	-10.01 -13.98 -14.08 -12.03 -13.98 -11.90 -13.98 -11.90	5,96 3,98 -2,03 -1,95 -3,98		0.1 3.8 0.0 3.6 0.3 2.1 0.1 2.6 0.0 1.6
25000-26000 26000-27000 27000-26000 26000-26000 28000-30000	1111.24	118.20 118.40 112.80 114.80 108.80 110.40 104.70 108.80 101.30 103.00	117.00 112.00 100.40	119.80 110.08 110.20	-24.08 -20.00 -20.00 -17.96 -16.01	-18.01 -18.01 -14.08 -13.98 -12.03	-13.98 -11.86 -12.03 -11.96 -12.03 -10.00 -12.03 -10.00 -11.96 -10.00	-0.94 -0.94 -8.02 -7.97 -7.87	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 1.0 0.0 0.8 0.0 0.7 0.0 0.7 0.0 0.0
\$0000-\$1000 \$1000-\$2000 \$2000-\$5000 \$5000-\$4000 \$4000-\$6000	1 83.50 1 89.90 1 86.70	\$6.10 88.70 94.90 96.40 91.20 92.80 98.00 89.40 88.80 86.80	97.80 94.50 80.80	99.00 98.40 91.80	/ -18.01 ! -18.01 ! -20.00 ! -23.88 ! -18.01	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.08	-7,97 -7,97 -7,97 -7,97 -7,97	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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BOT FT MSL	1 1%	N PERCENTILES	90%	99X	1 1%	DND	H PERCENT	ILES SON	99X	11	PERCENT	OCCURR SRLR	ENCE :
87C-700 800-1000 1000-1000 2000-2000 2000-2000 2000-3000 3000-4000 4000-4000 4000-8000	334.02 282.05 287.75 280.66 282.21 267.80 287.66 251.02 243.35 238.40	318.08 371.38 348.00 381.88 338.89 353.08 358.89 353.08 351.00 348.25 322.78 327.80 312.88 328.08 302.72 318.76 293.48 309.88 285.19 301.88 276.88 294.88	382.25 374.26 385.18 356.36 347.68 338.36 328.75 320.80 313.26	382.98 372.98 384.89 384.84 348.00 238.73 327.78 320.04	1 ~ 240.82 i - 149.25 i - 100.80 i - 160.41 i - 172.81 i - 164.58 i - 220.66 i - 215.81	-83.33 -72.91 -72.91 -75.00 -87.75 -83.78 -83.33 -75.87	-54.18 -54.16 -54.16 -54.18 -52.09 -50.00 -47.91	20.83 -33.33 -31.28 -33.33 -33.35 -35.41 -33.33 -27.08 -20.85 -16.66	118.75 -2.83 8.25 4.17 -6.25 -4.17 10.42 18.86 33.33		7.9 : 2.2 : 1.0 : 1.9 : 2.6 : 1 : 3.3 : 1 : 3.9 : 4.2 : 3.9 : 6.1 : 1	20.1 6.2 1.9 2.8 5.8 10.0 10.2 7.0 6.3 6.8	25.0 (1.5 ! 1.3 ! 1.8 ! 0.9 ! 1.2 ! 2.3 ! 3.1 ! 6.5 !
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1250.30 1221.78 1215.80 1205.80 1188.98	260.36 263.69 237.41 268.60 219.80 283.10 208.80 238.60 201.20 218.70	288.08	290.01 276.56 264.19	1-217.31 1-277.06 1-282.36 1-280.00 1-204.68	-98.74 -08.71	-43.78 -43.78 -39.86	-22.91 -20.05 -16.66 -16.66 -13.41	## . 25 54 . 63 73 . 30 69 . 82 39 . 97	11	11.0 ; 14.7 ; 14.1 ; 12.4 ; 7.0 ;	18.4 ; 17.7 ; 19.3 ; 19.3 ; 12.6 ;	10.8 ; 12.2 ; 11.9 ; 12.4 ; 9.3 ;
12000-15000	1179.10	194.10 205.80 187.10 195.00 180.71 188.10 174.20 178.10 188.40 172.40	220.40 210.00 200.81	229.00 218.10 208.70	-193.25 -146.74 -126.69 -103.25 -26.61	-80.00 -43.36 -38.87	-23.30 -20.05 -20.05	-13.41 -16.66 -16.66 -16.66	57.36 50.00 40.10 33.33 26.69	11	7.3 4.2 3.6 1.6	8.4 : 7.0 : 6.4 : 4.5 : 3.6 :	12.9: 10.6: 9.4: 8.0: 6.4:
15000-16000 16000-17000 17000-18000 16000-18000	1166.20 1181.10 1148.60	162.80 166.80 187.80 161.20 182.30 188.40 148.80 180.10 141.80 144.80	174.80 188.77 188.80	183.68	1 -63.84	-28.04 -28.01 -23.98	-16.01	-13.41 -14.06 -13.98 -13.98 -13.98	20.08 11.76 12.03 6.04 0.00	11	1.3 : 0.7 : 0.6 : 0.4 : 0.0 :	3.8 [1.9] 1.3 ! 1.2 ! 0.7 !	6.6 6.3 3.9 4.9 2.6
20000-21000 21000-22000 22000-25000 25000-24000 24000-25000	1131.90 1127.60 1122.90	137.30 138.80 132.80 138.30 128.70 131.00 124.10 128.80 120.00 122.10	140.20 138.20 130.10	152.80 148.80 140.60 134.70 128.10	33.98	-20.00 -17.96 -16.01	-13.98 -13.96 -13.98	-13.98 -13.98 -11.95 -11.95 -11.95	2.03 -3.98 -5.94 -3.98 -2.03	11	0.1 ! 0.0 ! 0.0 ! 0.0 !	0.0 0.0 0.0 0.1 0.0	3.1 : 2.2 : 1.3 : 1.8 : 2.0 :
25000-26000 26000-27000 27000-26000 26000-28000 28000-30000	1111.39 1107.10 1103.57	118.10 118.10 112.30 114.20 108.20 110.20 104.80 108.30 101.20 102.80	110.00 112.30 108.00	119.20 114.80 109.80	: -24.08 : -21.96 : -20.00 : -16.01 : -16.01	-14.06 -13.96 -13.99	-12.08 -12.03 -11.98	-11.98 -11.98 -10.00 -10.00	-7.91 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 1	0.6 (0.9 (0.4 (0.3 (
\$0000-\$1000 \$1000-\$2000 \$2000-\$3000 \$5000-\$4000 \$4000-\$6000	\$6.90 93.70 90.00 68.84 84.89	97.90 88.80 94.70 98.20 91.10 92.70 87.90 89.30 85.70 66.70	97.80 94.30 80.70	98.20 91.30	-14.09	-12.03 -12.03 -12.03	-10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 ! 0.0 ! 0.0 !	0.0 :	0.0 t 0.0 t 0.0 : 0.0 :

1200Z FIGURE B-6-2-C B-94

WET-DRY TRANSITION

THICKNESS STATISTICS

BASE	:		DUCT	RCENTIL	E6 :			RCENTIL	.Es	;		NORM THK PI	ERCENT I		1		RCENTI	
FT MSL	:	%FRQ	10%	50%	90%	%FRQ	10%	50X	90%	!	%FRQ	10%	50%	90%	1 %FR2	10%	50%	90%
9FC-500		5.4	197	340	482	19.2	98	295	482	1	99.0	1825	6191	15296	16.0	89	384	482
500-1000	;	0.1	197	197	197 :	0.7	98	492	489	1	2.5	98	699 0	34680	0.1	197	197	197
1000-1500	:	0.7	197	394	492	1.3	98	866	1181	:	1.6	1142	3347	30303	1 0.3	591	643	689
1500-2000	:	0.7	295	295	787 :	3.4	98	591	1181	:	0.6	1673	4429	7579	0.0			
2000-2500	:	3.5	98	344	541	6.4	98	394	1102		3.7	157	3150	14712	1 0.6	394	937	984
2500-3000	ı	3.5	98	394	689 1	6.4	98	492	807	ı	6.9	364	3396	15860	1.0	197	284	2165
3000-3500	:	1.8	197	394	591	3.2	98	394	758	1	6.3	98	3347	7520	2.3	236	443	1870
3500-4000	:	2.0	197	344	591 :	2.9	98	394	591	ŧ	6.4	98	1772	10577	3.1	118	591	1191
4000-4500	:	2.3	167	344	551 :	4.5	118	394	787	:	5.7	78	884	5551	3.4	78	443	787
4500-5000	1	2.3	98	246	591	5.2	98	295	709	1	8.7	98	2067	30250	5.4	197	394	1004
5000-6000	-	9.6	98	394	591 :	11.4	98	295	787	•	16.3	98	1575	29502	7.4	98	394	1161
6000-7000	:	13.0	197	394	571 :	15.3	98	295	689	;	21.7	98	2145	29577	9.2	98	394	876
7000-8000	:	14.0	98	295	492	18.8	98	197	591	i	25.5	98	2264	27790	11.2	98	443	1083
8000-9000	1	12.7	98	295	394 :	15.7	98	197	492	ı	26.1	98	3347	26904	10.5	197	492	1112
9000-10000	ı	7.3	98	295	394	12.1	98	197	394	1	18.9	98	2659	25723	9.3	98	394	874
10000-11000	+	6.6	78	197	394 ;	10.9	98	197	394	!	21.0	98	3937	24837	7.9	78	394	1024
11000-12000	:	3,9	98	197	295 :	7.0	98	197	443	:	10.5	98	2953	23754	7.7	98	394	884
2000-13000	;	3.4	98	197	197 :	5.0	98	148	295	1	10.8	197	2559	22671	6.7	98	443	984
3000-14000	:	1.9	98	148	295 :	5.0	98	197	394	:	11.8	78	4095	21687	6.6	98	394	876
4000-15000	i	2.2	98	98	295	3.4	98	98	197	1	8.0	98	3248	. 2 070 3	7.0	98	591	1062
5000-16000	+-: :	1.5	98	98	285	2.9	98	98	197	+- -	7.7	98	3871	19718	4.4	98	525	958
6000-17000	1	0.7	131	164	164	1.7	108	164	279	:	6.4	329	4265	18832	4.2	164	492	920
7000-18000	;	0.7	164	164	164	1.7	164	164	164	:	5.4	509	4101	17717	3.9	164	492	984
18000-19000	1	0.4	164	164	164	0.4	164	164	328	:	7.9	656	15912	16569	6.3	164	329	820
9000-20000	1	0.1	164	164	164 :	0.6	164	164	328	ı	2.9	295	14929	15551	3.5	164	328	722

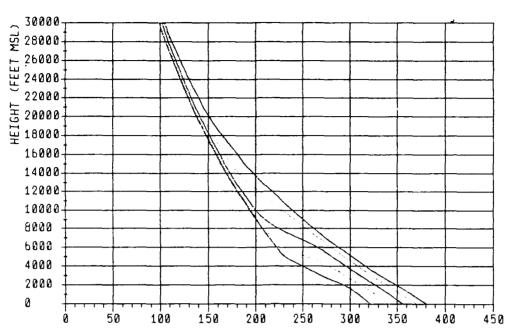
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BASE	;		DUCT	B RCENTIL	E8 :		SRLF THK PE	RS ERCENTIL	ES	1		NORM THK PI	AL ERCENTI	LES	í		SUB THK PE	RCENTI	LES
FT MSL		%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	į	%FRQ	10%	50%	90%	•	%FRQ	10%	50%	90%
9FC-500		7,9	98	295	482 :	20.1	98	384	492	+- !	96.5	1567	6289	34778	;	25.0	187	384	482
500-1000	:	0.4	197	197	394 :	1.3	98	98	394	;	6.1	610	4232	15889	1	0.6	884	935	1280
1000-1500	1	0.7	98	591	886 :	0.9	98	443	1280	1	2.2	98	3839	34070	1	0.6	98	884	1083
1500-2000	:	1.3	98	394	886 :	2.2	78	492	1476	1	1.0	98	2824	33695		0.3	295	591	864
2000-2500	:	1.9	98	295	551 :	3.8	98	492	925	ŧ	2.3	1437	4232	15403	1	0.1	591	591	591
2500-3000	:	1.9	98	295	591 :	7.1	98	591	1083	:	4.5	78	2264	6228	1	0.9	98	344	886
3000-3500	1	2,8	197	295	492 :	4.5	78	394	787	1	6.4	78	1772	8543	1	1.7	98	541	1575
3500-4000	1	2.6	197	295	591 :	3.6	98	394	689	:	7.0	98	1919	6545	1	1.7	98	492	1191
4000-4500	:	2.6	98	344	591 :	4.1	98	295	689	1	5.7	98	797	9055	1	3.9	78	640	1102
4500-5000	:	3.6	98	295	531	6.3	98	197	620	:	7.7	98	2018	30299	i	4.5	126	394	787
5000-6000		9.6	98	295	492	14.4	98	295	689	;	18.8	98	2362	29561	1	8.0	98	492	974
6000-7000	:	12,4	98	295	591 :	14.5	98	295	591	:	19.2	98	2658	28774	1	9.7	98	492	1083
7000-8000	:	10.6	78	295	492 :	16.3	98	295	591	;	24.0	78	2953	27691	1	7.1	98	492	1083
8000-9000	;	11.3	99	295	492	16.0	98	295	591	;	23.1	98	4527	27002	:	9.0	99	492	1201
9000-10000	1	5.8	98	197	394	9.2	98	197	394	:	16.4	98	2264	25919	1	6.4	79	394	955
0000-11000	-+-	6.7	 98	197	394 ;	7.8	98	197	394	+-	15.7	98	3248	24719	+	8.7	98	492	984
1000-12000	:	3.8	98	197	394 :	6.8	98	197	394	i	12.9	98	1969	23754	1	7.0	98	394	965
2000-13000		3.5	98	98	295 :	5.7	78	197	394	:	11.5	98	3790	22573	:	7.3	98	394	787
3000-14000	;	1.6	98	197	276	4.1	90	148	295	1	9.0	98	2067	21697	1	5.4	98	394	1191
4000-15000	÷	1.9	98	98	197	3.2	98	98	295	;	6.8	98	4494	20604	i	4.7	98	394	846
15000-16000		1.3	98	98	197	3.6	98	197	295	+-	8.0	98	6922	19718	+	5.5	197	394	915
6000-17000		0.7	98	164	164	1.9	131	164	315	1	6.0	157	15174	18832	1	4.7	144	492	1083
7000-18000		0.6	164	164	164	1.3	164	164	164	1	4.0	328	4839	17766	:	2.2	164	329	722
8000-19000	;	0.4	164	164	164	1.2	164	164	164	1	6.1	656	15994	16651	i	4.4	164	328	656
9000-20000		0.0				0.7	164	164	164	•	2.2	279	4593	15420		2.5	328	328	620

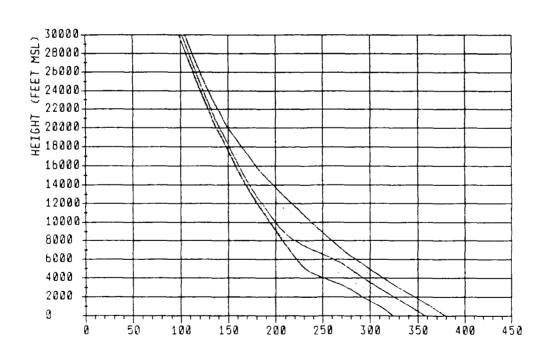
1200Z

FIGURE B-6-2-D B-95

N PERCENTILES



N (N-Units) 0000Z

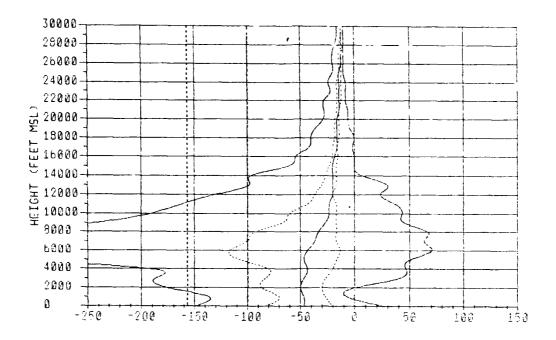


N (N-Units) 1200Z

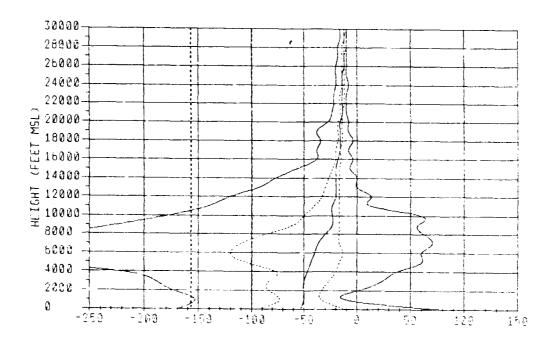
FIGURE B-6-3-A

SAN JUAN DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-6-3-B B-97

SAN JUAN DRY SEASON

PT MEL	1.8	# PERCENTILES	90%	0 0 %	1 1%	DNDE	PERCENTILES 80% 80		PERCENT	OCCURRENCE :
\$PC-800 800-1000 1000-1800 1800-2000 2000-2000 3000-8000 8000-8000 4000-4000 4000-8000	1329.05 1320.61 1313.10 1308.62 1299.41 1266.36 1276.33 1263.60 1268.60 1243.36	346.56 331.19 336.50 383.00 331.86 346.00 328.00 336.78 317.32 331.80 307.86 322.69 288.50 314.00 288.76 306.19 281.76 286.78 272.78 291.86	374.06 366.11 386.00 380.38 342.86 333.86 324.80 316.86 308.86	\$76.19 \$67.67 \$69.20 \$60.66 \$42.19 \$32.76 \$26.26 \$17.62	i-181.48 i-114.58 i-122.81 i-143.75 i-174.33 i-178.18 i-177.08 i-201.80 i-202.79 i-211.33	-70.65 -66.66 -66.75 -78.16 -93.75 -67.50 -61.25 -61.25	-47.81 -8. -47.81 -27. -46.83 -27. -47.81 -28. -50.00 -28. -50.00 -27. -47.81 -26. -47.81 -26. -47.81 -26. -47.81 -26.	08 -10.42 (08 -10.42 08 -10.42 08 -8.25 16 -4.17 16 10.50 09 37.80 00 54.18 83 48.83	f 0.8 f 1 1.1 f 1 1.2 f 1 2.8 f 4 4.3 f 1 4.4 f 1 4.5 f	13.6 : 10.6 : 2.2 ! 0.6 : 2.3 ! 0.8 : 4.6 ! 0.8 : 4.6 ! 0.8 : 7.2 ! 1.1 ! 1.1 ! 2.4 ! 9.0 ! 3.6 ! 7.8 ! 6.5 ! 8.5 ! 8.5 ! 8.5 ! 8.5 ! 11.8 : 7.9 :
8000-8000 8000-7000 7000-8000 8000-8000 9000-10000	1230.40 1221.40 1213.60 1208.80 1189.00	281.40 278.80 228.80 283.18 217.10 243.60 208.20 222.20 200.80 207.30	282.88 278.81 288.89 282.40 238.80	286.28 273.19 260.38	I-321,12 1-346,44 I-311,88 I-288,84 I-236,34	-116.48 -100.00 -88.87	-48.75 -16. -41.66 -16. -37.50 -16. -32.94 -16. -23.44 -16.	66 70.05 1 66 63.96 1 66 67.12 1	1 21.0 1 17.8 1 18.8	22.2 : 13.2 : 23.3 : 13.0 : 19.7 : 11.6 : 19.7 : 11.6 : 11.9 : 9.1 :
10000-11000 11000-12000 12000-13000 18000-14000 14000-18000	1168.40	185.71 188.30 186.70 181.10 180.40 184.00 174.00 177.80 188.20 171.10	228.30 218.80 201.80 100.10 178.20	228.80 218.00	1-186,71 1-180,00 1-119,82 1-96,61 1-83,38	-30.07 -33.33 -20.05	-23.30 -18. -23.30 -19. -20.08 -18. -20.08 -18. -19.92 -18.	92 38.59 1 66 20.05 1 66 23.67 1	1 4.7 1 1 3.3 1 1 2.3 1	10.4 : 10.6 : 6.8 : 7.0 : 4.1 : 4.5 : 3.6 : 3.8 : 2.2 : 2.3 :
17000-18000	1188.34	162.70 165.40 187.40 180.40 182.30 184.80 148.70 148.80 141.80 144.30	171.30 188.10 186.50 188.40 147.70	188.88 178.81 170.19 181.90 188.10	1 -03,38 1 -47.00 1 -43.98 1 -40.00 1 -31.90	-20.08 -20.00 -18.04	-18.68 -18. -17.98 -18. -18.01 -18. -18.01 -13.	94 0.00 t 94 -3.98 t 96 1.85 t	0.2 1	1.4 2.2 0.7 2.1 0.7 1.6 0.3 2.8 0.0 0.8
2000-21000 21000-22000 22000-28000 28000-24000 24000-28000	1131.88	157.40 158.60 153.00 158.10 128.60 150.80 124.20 126.40 120.10 122.10	142.60 137.80 133.20 128.60 124.30	148.80 143.60 138.70 133.18 127.43	-\$0.00 -28.04 -28.01 -23.88 -21.85	-16.01 -16.01 -18.84	-16.84 -13. -13.89 -13. -13.98 -12. -13.98 -11. -13.98 -11.	98 -7.97 05 -7.97 95 -8.02	1 0.0 1	0.0 1.3 0.0 0.8 0.0 0.5 0.0 0.5 0.0 0.6
28000-28000 28000-27000 27000-28000 28000-28000	1111.30	118.20 118.10 112.40 114.20 108.20 110.20 104.80 108.30 101.20 102.80	120.10 116.10 112.10 108.00 104.80	122.90 118.80 114.24 108.80 108.78	; -20.00 -20.00 -18.04 -18.01 -16.01	-14.08 -13.88 -13.98	-12.03 -11. -12.03 -11. -12.03 -10. -11.98 -10.	98 -10.00 00 -10.00 00 -10.00	0.01	0.0 0.4 0.0 0.7 0.0 0.3 0.0 0.1
\$0000-\$1000 \$1000-\$2000 \$2000-\$3000 \$3000-\$4000 \$4000-\$8000	1 89.40 1 89.80 1 86.70	97.80 99.80 94.80 98.20 91.00 92.70 87.80 89.20 88.80 88.70	101.10 97.80 94.40 90.70 67.70	98.80 98.30 91.80	1 -15.94 1 -14.08 1 -18.04 1 -18.04 1 -14.08	-12.03 -12.03 -12.03	-10.00 -10. -10.00 -10. -10.00 -10. -10.00 -10.00 -8.	00 -7.97 (00 -7.97 (00 -7.97)	1 0.0 1	0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0

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### ### ### ### ### ### ### ### ### ##	23.8 (1.2 0.7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1
1000-1000 \$14.77 \$72.14 \$46.86 \$58.86 \$58.87 -138.28 -72.81 -82.06 -31.28 -10.42 1.4 2.8 1.00-2000 1306.88 324.14 \$38.00 346.78 367.67 1-182.80 -70.83 -80.00 -33.33 -12.80 11 2.1 3.1 2.00-2000 1287.81 318.68 330.00 340.88 346.86 -184.38 -77.08 -80.00 -33.33 -10.42 2.8 7.2 2800-3000 1286.00 \$06.18 \$320.78 \$31.88 \$338.78 -177.08 -88.88 -80.00 -33.33 8.28 3.3 10.1 3500-3000 1280.01 297.08 311.88 322.42 330.87 1-186.41 -83.33 -80.00 -28.18 20.00 2.7 8.1 3800-4000 1271.08 288.80 303.78 314.88 322.88 1-218.86 -78.18 -47.81 -26.00 22.88 4.3 8.8 4000-4000 1288.87 220.18 228.28 307.28 318.08 1-233.33 -78.18 -47.81 -48.85 -20.83 27.08 6.8 43.00-4000 1242.27 271.88 288.18 300.80 307.88 1-212.88 -77.08 -43.78 -18.88 60.41 1 18.2 22.4 1 4000-4000 1230.20 282.80 277.88 280.88 280.88 1-328.03 -110.41 -43.78 -18.88 60.41 1 18.2 22.4 1 4000-4000 1230.20 282.80 277.88 280.88 1-328.03 -110.41 -43.78 -18.88 60.41 1 18.2 22.4 1 4000-4000 1230.20 282.80 277.88 280.88 1-328.03 -110.41 -43.78 -18.88 60.41 1 18.2 22.4 1 1 18.2 22.4 1 1 18.88 1 1 18.88 1 1 1 1 1 1 1 1 1	0.7 0.7 1.2 2.0 2.3 3.4 4.4 6.7
2000-2800 1287.81 318.88 330.00 340.88 348.86 1-188.38 -77.08 -80.00 -33.33 -10.42 :: 2.8 : 7.2 : 2800-3800 1286.00 308.18 320.78 331.88 338.78 !-177.08 -88.88 -80.00 -33.33 8.28 :: 3.3 : 10.1 : 3800-3800 1280.01 287.08 311.88 322.42 330.87 :-188.41 -83.53 -80.00 -28.18 20.00 :: 2.7 : 8.1 : 3800-4000 1271.08 288.80 303.78 314.88 322.68 !-218.86 -78.18 -47.91 -25.00 22.88 :! 4.3 : 8.1 : 3800-4000 1271.08 288.80 303.78 314.88 322.68 !-218.86 -78.18 -47.91 -25.00 22.88 :! 4.3 : 8.8 : 4000-4000 1242.27 280.88 307.28 307.28 318.08 !-233.38 -79.18 -48.85 -20.83 27.08 :! 6.8 : 6.8 : 4800-4000 1242.27 271.89 288.18 300.80 307.88 :-212.88 -77.08 -43.78 -18.88 60.41 :: 18.2 : 22.4 :	1.2 ! 2.0 ! 2.3 ! 3.4 : 4.4 ! 6.7 !
2600-5000 (286.00 506.18 320.78 331.88 338.78 (-177.08 -88.88 -50.00 -33.33 8.28); 3.3 10.1 5000-3800 (280.01 287.08 311.86 322.42 330.67 -168.41 -83.53 -50.00 -28.18 28.00 2.7 8.1 5000-4000 (1271.08 288.80 303.78 314.88 322.86 -218.86 -78.18 -47.91 -25.00 2.7 8.1 4000-4000 (1286.87 280.18 288.28 307.28 318.08 -238.33 -79.18 -45.83 -20.83 27.08 6.8 6.8 4000-6000 (1242.27 271.68 288.18 300.60 307.68 -212.66 -77.08 -43.78 -18.68 60.41 18.2 22.4 5000-6000 (1250.20 282.80 277.68 280.80 288.38 -328.03 -110.41 -43.78 -18.68 60.41 18.2 22.4	2.0 2.3 3.4 : 4.4 6.7 10.6 : 12.8 :
\$000-\$800 1280.01 297.08 311.88 322.42 330.67 -188.41 -83.53 -50.00 -28.18 20.00 2.7 8.1 3800-4000 1271.08 288.80 303.78 314.88 322.58 -218.86 -78.18 -47.91 -28.00 22.88 4.3 6.8 4000-4800 1286.97 260.18 288.28 307.28 318.08 -235.33 -78.18 -45.85 -20.83 27.08 6.8 6.8 7.3 4800-8000 1242.27 271.68 288.18 300.80 307.68 -212.68 -77.08 -43.78 -18.68 63.87 5.1 8.9 8000-8000 1230.20 282.90 277.68 280.80 288.38 -328.03 -110.41 -43.78 -18.68 60.41 18.2 22.4	2.3 3.4 4.4 6.7 10.6 12.8
\$800-4000 1271.08 288.80 303.78 314.88 322.88 1-218.86 -78.16 -47.91 -28.00 22.88 1 4.3 6.6 1 4000-4800 1288.87 280.18 288.28 507.28 318.08 -233.38 -78.18 -48.85 -20.83 27.08 1 6.8 1 7.3 4800-8000 1242.27 271.68 289.18 300.80 307.68 1-212.68 -77.08 -43.78 -18.68 63.47 1 5.1 8.8 1 5000-8000 1230.20 282.90 277.68 280.85 1-328.03 -110.41 -43.78 -18.68 60.41 1 18.2 22.4 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0 1 18.0	3.4 : 4.4 ! 6.7 : 10.6 : 12.8 :
4800-8000 1242.27 271.68 268.18 300.80 307.68 1-212.68 -77.08 -43.78 -18.68 83.87 11 8.1 8.8 1 8000-8000 1230.20 283.90 277.68 280.80 288.38 1-328.03 -110.41 -43.78 -18.68 60.41 11 18.2 1 22.4 1	10.6:
8000-8000 230.20 282.80 277.68 280.80 288.38 -328.03 -110.41 -43.78 -16.66 60.41 18.2 22.4	10.6 :
	12.8 :
7000-8000 1213.80 218.80 288.80 283.28 270.88 1-338.83 -109.89 -38.88 -18.88 89.92 11 21.1 20.9 1	12.5 :
- \$000-\$000 1208.00 208.00 218.60 250.20 258.75 -286.57 -80.08 -29.85 -16.66 69.92 11 15.3 18.1 1	11.0 1
8000-10000 :198.00 200.50 208.10 238.10 248.10 :-208.64 -58.77 -23.44 -16.88 56.64 :: 7,6 : 10.7 :	9.5
10000-11000 192.30 193.70 198.00 223.30 235.60 -186.59 -48.74 -23.30 -16.28 34.93	0.6
11000-12000 188.30 186.80 190.80 211.10 224.80 -139.87 -38.71 -20.98 -16.68 13.28 (4.8 !
12000-13000 178.10 180.30 183.80 188.79 214.20 -118.66 -30.07 -20.08 -16.66 13.28 2.2 4.3	3.7 1
14000-18000 186.80 186.00 170.80 177.80 184.48 -78.86 -26.86 -19.82 -16.86 -3.28 1.3 2.2	2.5
18000-18000 181.80 182.80 185.20 170.00 185.40 -50.00 -23.50 -19.86 -18.88 -6.84 0.8 1.3	1.2 1
- 16000-17000 (186.20 187.30 180.20 184.30 177.00 -38.80 -20.08 -17.86 -18.84 -8.13 } 0.0 0.7	1.6
17000-18000 151.10 152.10 154.50 158.20 168.33 -40.00 -20.00 -16.01 -15.94 -6.02	1.7
18000-18000 (145.60 146.60 148.20 152.70 161.89 -37.96 -18.04 -18.01 -13.98 -5.95 (0.0 0.1 18000-20000 (140.70 141.80 144.00 146.80 153.90 -31.95 -17.98 -18.01 -13.98 -8.98 (0.0 0.1	1.6 :
	1
20000-21000 138.10 137.20 138.40 141.90 147.80 -23.98 -18.01 -13.94 -13.98 -10.00 0.0 0.0 21000-22000 131.73 132.80 134.90 137.30 142.88 -22.03 -16.01 -13.98 -13.98 -10.00 0.0 0.0	0.4
21000-22000 (131.73 132.80 134.80 137.30 142.88 -22.03 -18.01 -13.98 -13.98 -10.00 : 0.0 : 0.0 : 22000-23000 : 127.63 128.80 130.80 137.87 -22.03 -18.01 -13.98 -12.03 -10.00 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 :	0.4 1
28000-24000 122.80 124.00 128.20 128.40 131.84 -20.00 -18.84 -13.88 -11.88 -8.05 0.0 0.0	0.4
24000-28000 118.80 119.80 121.80 123.80 127.00 -21.85 14.06 -13.86 -11.85 -8.05 1 0.0	0.7
2000-28000 114.90 118.00 117.80 119.60 122.40 -20.00 -14.06 -12.03 -11.85 -10.00 1 0.0 0.0	0.2
28000-27000	0.2 :
27000-28000 :108.70	0.1 (
28000-28000 1103.00 104.50 108.20 107.80 108.40 1-18.01 -13.88 -11.98 -10.00 -10.00 (: 0.0 0.0 29000-28000 198.80 101.10 102.70 104.50 108.70 1-7.88 -12.03 -11.98 -10.00 -10.00 :: 0.0 ! 0.0 ! 0.0 !	0.0 1

30000-31000 98.20 97.70 98.30 100.90 102.10 -18.01 -12.03 -10.00 -10.00 -7.97 0.0 0.0 31000-32000 93.00 94.50 86.10 97.70 98.60 18.59 -12.03 -10.00 -10.00 -7.97 0.0 0.0	0.0 1
34000-33000 1 88 40 90.80 92.80 94.30 95.20 : -17.86 -12.03 -10.00 -7.87 !: 0.0 ! 0.0 !	0.0
33000-34000 84.20	0.0 :
34000-38000 84.00 85.40 86.80 87.80 88.30 14.06 -11.85 -10.00 -8.05 -7.87 0.0 0.0	0.0 ;

1200Z FIGURE B-6-3-C B-98

THICKNESS STATISTICS

BASE				RCENTIL				RCENTI	_E8 :		NORM THK P	AL ERCENTI	LES	:	SUS THK PS	ERCENTI	. ES
FT MSL	; - + -	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	1 XFRQ	10%	50%	90%
SFC-500	;	3.6	89	384	482	13.6	98	384	561 1	99.1	1959	5450	10119	10.4	98	384	492
500-1000	:	0.3	98	98	394 :	0.4	98	492	886 :	1.4	98	5709	24279	0.3	98	591	967
1000-1500	:	1.0	108	394	760	1.5	98	492	1122 :	1.5	78	3937	15217	1 0.7	98	591	787
1500-2000	:	0.6	197	344	394 :	3.2	98	591	1142	1.8	197	3051	9543	0.4	98	492	591
2000-2500	:	2.4	197	394	689 :	4.5	98	492	984	2.6	98	2954	6299	0.8	98	489	1270
2500-3000	:	2.7	98	394	6 00 :	6.9	98	492	886	6.9	98	2116	6446	1.8	98	489	1457
2000-2200		2.2	236	293	591 1	4.4	98	394	797 :	5.9	98	2165	10059	1.9	78	443	787
3500-4000		3.1	197	344	561	4.0	98	394	689	7.0	98	1870	5590	4.1	99	443	1378
4000-4500	ì	2.8	197	295	591 :	6.3	98	394	787	7.0	98	984	4478	3.4	90	541	974
4500-5000		5.1	98	295	591 ;	8.3	98	197	689	11.4	98	1378	30250	4.0	98	394	1033
5000-6000		16.6	138	295	591	18.7	98	197	591 ;	23.1	98	2264	29660	10.8	98	492	1280
6 000-7000	:	16.3	98	295	492 :	19.8	98	295	591	27.8	295	7333	28872		98	591	1203
7000-8000	:	14.5	98	295	492	16.6	98	197	59:	23.3	98	6988	27888	7.1	90	591	1181
8000-9000	:	13.0	98	295	394 :	16.1	98	197	492	26.3	197	26116	26904	8.2	90	591	1181
9000-10000	; 	7.0	98	295	394	10.5	96	197	492	15.3	295	25181	25919		98	492	994
10000-11000	;	4.2	98	197	394	9.8	98	197	394 :	17.0	197	13484	24935	6.4	98	394	1260
11000-12000		4.4	98	197	394 :	5.9	98	197	295	10.6	492	23065	23952	4.3	98	492	1093
12000-13000		2.8	98	197	295 .	4.0	98	98	295	6.9	98	4004	22888	2.3	98	591	1201
13000-14000	;	1.8	98	197	295 :	3.4	98	148	295	5.3	98	21096	21884	2.8	98	591	1142
14000-15000	·	1.4	98	197	295	2.2	98	98	217 :	4.3	492	20210	20801	1.1	98	244	994
15000-16000	:	0.3	98	98	197 :	1.3	98	98	226 :	 2.8	98	5364	19917	1.8	98	394	797
16000-17000	:	0.2	131	148	164 :	0.7	98	164	328	2.2	420	7054	18839	1.6	292	454	
17000-18000		0.1	164	164	164	0.7	164	164	328	1.7	459	17225	17881	1.3	228	492	820
18000-19000		0.1	164	164	164	0.3	164	164	164	2.6	1345	16076	16897	2.3	246		820
19000-20000		0.0				0.0				1.2	1362	15174	15748	2.3	476	492	820

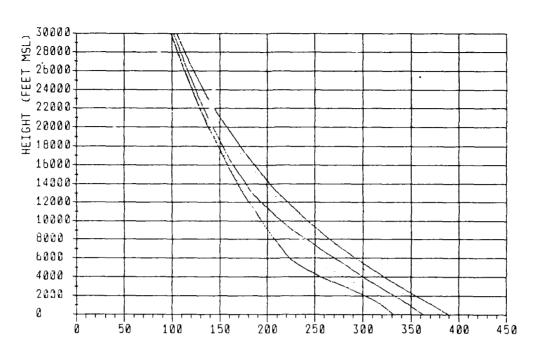
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SABE :		DUCT	S RCENTIL	E8 :		BRLR	S RCENTIL	FQ	,		NORM THE P	AL ERCENTI	LER	1		SUB THK PE	RCENTI	FR
FT MBL	%FRQ	10%	50%	90%	%FFC	10%	50%	90%	:	%FRQ	10%	50%	90%	1	%FRG	10%	50%	90%
SFC-500	6.2	89	285	482	19.1	98	384	591	+- -	97.3	1176	5403	9641	:	23.5	187	384	-82
500-1000	0.3	197	295	1083 :	1.5	98	197	1142	:	5.4	98	2888	9203	;	0.4	90	98	591
1000-1500	1.2	236	492	689 :	1.2	98	492	984	;	2.4	98	4232	17402	:	0.5	98	197	1191
1500-2000	1.2	197	394	650 :	3.8	98	492	684	:	1.9	98	3347	6653	;	0.3	295	591	886
2000-2500	1.4	197	394	768 .	4.5	98	492	984		3.1	98	3740	25276	ı	0.9	98	492	886
2500-3000	2.5	197	295	620 i	6.7	98	394	896	į	6.4	98	3445	7874	1	1.2	197	689	1132
3000-3500	2.0	98	295	591	3.7	98	394	778	1	6.7	ବଷ	2412	5214	:	1.3	295	492	1033
3500-4000 :	3.2	197	394	591 :	3.9	98	394	787	;	5.4	98	2362	11309	:	2.1	197	591	1201
4000-4500	3.7	197	394	591	5.2	98	197	591	:	5.8	98	1329	31028	:	2.7	492	689	1014
4500-5000	3.4	98	295	531	6.8	98	295	640	!	7.8	99	1772	30290	;	3.5	177	394	1102
5000-6000	17.4	197	295	591	18.9	98	295	659	;	23.4	98	1970	29561		8.6	98	492	1083
60 00-7000	18.8	197	295	492 :	20.1	98	197	492		28.9	98	16306	28872	1	8.5	98	492	1083
7000- 8 000	16.6	197	295	492 :	17.4	98	197	492	1	29.3	98	27199	27986	;	7.8	98	492	1290
8000-9000	12.2	98	295	394	15.7	98	197	394	;	23.9	295	26116	27002	1	7.9	197	394	1290
9000-10000	6.5	98	295	394	9.0	98	197	394	;	14.8	98	25132	25919	;	5.8	99	394	984
10000-11000	5.7	98	197	394	8.1	98	197	394	+	13.4	 98	15027	24935	+-	4.6	98	492	1240
11000-12000	3.6	98	197	305	4.7	98	96	794		8.7	98	23114	23961		3.3	98	394	965
12000-13000	1.8	98	197	295	4.2	98	197	315	1	6.5	98	11221	22770		2,1	98	394	915
13000-14000	1.4	98	98	236	2.5	98	197	295		4.8	148	21146	21884	1	2.5	167	394	1014
14000-15000	1.1	98	197	295	2.1	98	98	295	:	3.6	217	20161	20801	:	1,4	98	344	945
15000-16000	0.8	98	78	197	1.2	98	78	157	+	2.0	1804	19226	19915	+-	0.8	78	804	1312
160 0-17000 .	. 6.6		-		0.7	164	164	328		1.7	1280	6431	18931		1,1	190	492	892
17000-18000	0.0				0.2	328	328	328	1	1.4	262	17225	17891	;	1,3	164	329	738
8000-19000 3	0.6				0.1	164	164	164	i	1.5	2051	16240	16897	:	1,1	164	492	656
19000-20000	6.0				9.1	164	164	164		1.0	2346	15092	15732		0.5	328	492	820

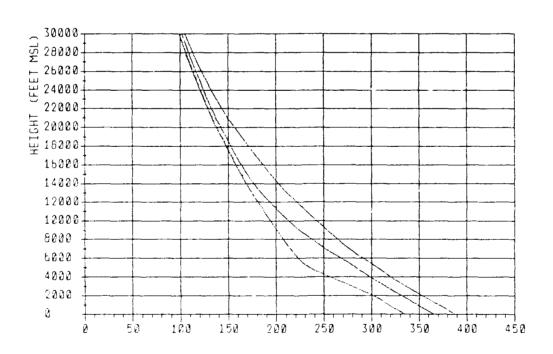
1200Z

FIGURE B-6-3-D

B-99



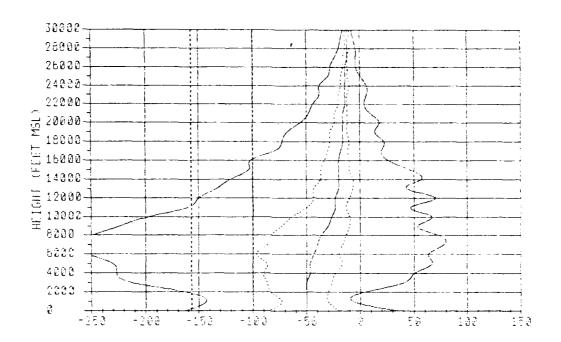
N (N-Units) 0000Z



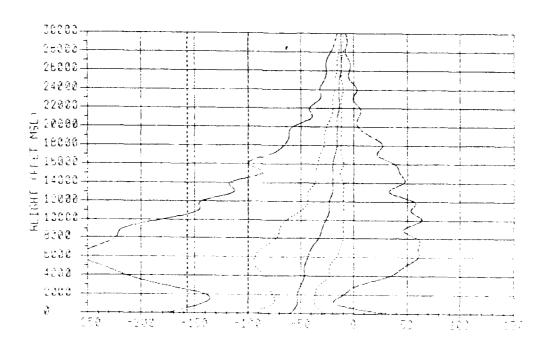
N (N-Units) 1200Z

FIGURE B-6-4-A B-100

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-6-4-B B-101

DRY-WET TRANSITION

77 MEL	l in	N PERCENTILES	eox	98x	1 1%	DMD:	H PERCENTI:	LES SON	8 6 K	11	PERCENT DUCT (OCCURRI	BVB :
BPC-800 800-1000 1000-1800 1800-2000 2000-2000 3000-3000 3000-3800 3000-4000 4800-8000	1336.33 1330.63 1328.43 1317.60 1308.73 1296.31 1265.37 1276.34 1264.91 1261.80	302.08 388.88 344.89 380.08 387.06 380.20 330.28 340.18 522.39 337.80 312.80 328.38 303.78 318.80 294.28 311.88 288.88 303.80 278.27 298.00	383.00 374.08 386.19 387.78 349.08 349.78 331.89 323.89 318.78 308.28	363.38 374.29 360.71 306.91 346.19 338.82 330.69 322.21	:-203.87 :-120.83 :-137.80 :-180.00 :-180.41 :-188.88 :-211.02 :-212.80 :-216.88 :-228.86	-102.08 -77.08 -72.81 -72.81 -63.33 -83.33 -83.33 -86.41 -89.58 -93.75	-80.00 - -80.00 - -80.00 - -80.00 - -80.00 - -80.00 -	2.08 29.16 29.16 29.16 31.20 29.16 27.00 27.00 27.00 22.81 18.75	67.13 -18.66 -11.99 -6.25 -4.17 20.63 50.00 38.68 42.41 65.37		4.8 : 0.4 : 0.8 : 1.4 : 2.4 : 2.9 : 4.0 : 5.6 : 5.6 :	18.4 : 4.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 : 5.0 :	18.6 0.4 0.6 1.2 1.0 2.5 3.7 4.2 8.2 7.4
8000-8000 6000-7000 7000-8000 8000-8000 8000-10000	1238.80 (222.84 1214.80 1208.40 1199.30	260.38 284.31 240.60 268.06 224.80 284.80 211.80 238.70 202.80 224.40	287.50 263.00 269.75 256.25 243.61	200.80 277,48 264.04	1-228.87 :-287.36 :-267.62 :-286.71 :-220.05	-87.50 -85.83 -89.87 -83.33 -73,30	-43.78 - -39.88 - -30.88 -	16.66 18.75 18.66 13.28	66.66 86.68 76.69 73.30	11	10.5 : 11.0 : 11.7 : 12.0 : 9.5 :	16.0 : 18.8 : 17.3 : 18.0 : 13.3 :	11.0 : 12.3 : 13.1 : 13.4 : 12.7 :
1000-11000 11000-12000 12000-17000 17000-14000 14000-18000	1188.80	198.00 212.60 187.80 200.70 181.20 191.10 174.70 182.20 188.80 175.80	232.80 221.80 212.80 203.38 194.80	228.36 218.80 208.70	[-203.38 [-165.53 [-161.92 [-133.33 [-116.68	-63,28 -50.00 -46.61 -40.10 -38.71	-23.30 - -20.05 -20.08	10.03 10.03 -6.77 -6.77	00.00 40.00 70.05 43.30 59.69	11	9.4 6.5 5.0 3.8 2.9	12.4 ! 10.2 : 8.6 : 6.8 : 4.9 :	16.9 : 12.4 : 16.1 : 12.7 : 14.8 :
18000-18000 18000-17000 17000-18000 18000-18000	1186.80	163.30 168.60 167.80 162.40 162.63 166.80 147.10 151.20 142.20 148.80	187.00 178.80 171.70 164.10 186.80	164.65 176.30	1-103.36 :-\$1.89 :-80.85 :-74.03 :-56.01	-36.59 -32.03 -28.04 -27.96 -28.01	-18.04 - -17.96 - -18.01 -	10.03 11.98 12.03 11.95 12.03	36.71 21.89 20.00 22.03 13.86	1;	2.6 : 0.9 : 0.9 : 0.6 : 0.1 :	4.3 : 3.0 : 2.0 : 2.8 :	10.1: 10.1: 7.8: 10.1: 0.4:
2000-21000 21000-22000 22000-25000 25000-25000 24000-25000	1132.10	137.60 140.80 133.20 136.10 128.80 131.70 124.20 127.20 120.10 122.60	160.10 144.10 138.40 132.80 127.40	186.20	1 -58,01 : -45,93 : -42,03 : -36,01 : -33,98	-23.88 -22.03 -20.00 -18.04 -18.04	-14.06 - -13.93 - -13.98 -	11.95 11.95 11.95 11.95	16.01 9.41 3.98 5.94 2.03	11	0.0 :	0.9 : 0.1 : 0.0 : 0.1 :	7.3 : 5.7 4.7 : 5.7 :
25000-28000 26000-27000 27000-28000 28000-28000 28000-30000	1111.28	118.20 118.60 112.40 114.60 108.20 110.80 104.60 108.50 101.20 103.00	122.40 117.80 113.30 108.70 104.80	125.10 120.20 116.40 110.40 106.80	1 -30.00 1 -23.98 1 -21.98 1 -18.04 1 -18.01	-17.98 -18.01 -15.94 -13.98 -13.98	-12.03 - -12.03 - -12.03 -	11.95 11.95 10.00 10.00	-2.03 -3.98 -6.02 -3.98 -7.87		0.0 :	0.0:	2.5 1.3 1.0 1.0
3000-31000 3100-32000 3200-33000 38000-34000 34000-38000	1 96.88 1 93.84 1 90.10 1 86.80 1 84.70	88.00 99.80 94.70 98.30 91.10 92.70 87.90 89.20 85.70 98.60	101.30 97.80 94.40 90.80 87.60	95,40 91,40	: -18.01 : -18.01 : -22.24 : -28.01 : -22.03	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 - -10.00 - -10.00 -	10.00 10.00 10.00 10.00	-8.02 -7.87 -7.87 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 :	0.4 !

0000Z

HGT FT MEL	[! 1%	F PERCEI	NTILES SON	90%	89X	1 1%	DND 10%	H PERCEN	TILES DON	99X	;;	PERCENT DUCT :	OCCURRE	NCE :
##C - 500 1000 - 1000 1000 - 2000 2000 - 2000 2000 - 2500 2000 - 3600 2500 - 3000 4500 - 4600 4500 - 5000	1340.63 1331.44 1325.18 1316.97 1308.47 1288.16 1288.61 1273.72 1273.72	346.69 336.87 330.89 322.67 312.76 303.00 284.06 265.00	381.80 383.00 344.80 338.18 328.78 317.68 309.60	391.75 374.50 385.06 336.25 347.69 336.50 329.75 311.75 313.87	382.50 372.78 363.58 354.31 345.26 338.15 326.72 320.72	i-200.58 i-133.33 i-130.18 i-144.77 i-138.52 i-171.85 i-210.41 i-210.41 i-230.14	-127.08 -83.33 -77.08 -72.91 -75.00 -83.33 -81.25 -79.16 -83.33 -83.33	-80.41 -88.25 -58.25 -54.18 -54.18 -80.00 -50.00 -50.00	-12.80 -36.41 -35.33 -36.41 -37.60 -37.50 -33.33 -31.26 -26.00 -22.91	18.08 -13.56 -16.86 -10.42 -10.42 -10.42 -17.08 -17.08 -17.08 -17.08		7.6 : 1.3 : 1.3 : 1.3 : 1.3 : 2.3 : 2.7 : 4.4 : 4.2 : 4.8 :	28.9: 4.8: 2.5: 3.8: 5.1: 6.9: 6.2: 6.5: 7.5:	10.7 : 0.8 : 0.3 : 0.6 : 1.5 : 2.3 : 2.5 : 4.4 : 6.2 :
5000-6000 6000-7000 7000-8000 6000-9000 9000-10000	(235,72 (232.60 (214.50 (208.50 (188.50	238.99 221.90 211.10	266.38 280.90 236.28	285.75 280.88 267.88 255.20 243.00	200.10 275.00 263.60	:-239.58 :-263.27 !-233.33 :-236.45 !-208.58	-91,00 -93,23 -95,41 -76,69 -89,92	-45.83 -43.78 -39.58 -33.33 -28.85	-20.93 -18.88 -10.42 -10.03 -10.03	50.00 68.75 60.02 68.05 58.77	- • • • · · · · · · · · · · · · · · · ·	11.7 : 11.3 : 10.0 : 10.8 : 8.8 :	10,9 10,9 10,3 10,2 11,1	8.9: 10.5: 13.1: 16.0: 13.2:
1000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1185.60 1179.40 1172.81	187.80 181.30 174.80	200 70 180.50 182.30	231.90 220.78 211.50 202.39 183.70	229.28 219.00 209.30	:-186.71 :-153.25 :-143.36 :-122.95 !-108.69	-63.41 -80.00 -43.38 -43.39 -38.71	-26.56 -23.30 -23.30 -20.05	-9,90 -5,80 -10,03 -10,03 -13,28	56.64 56.64 56.64 39.97 46.61	11	6.0 : 0.6 : 4.2 : 3.9 : 2.0 :	13.1: 9.1: 7.2: 6.2: 5.2:	15.9 13.9 12.1 12.1 12.3
15000-16000 16000-17000 17000-16000 16000-18000 18000-20000	1151.50 1151.50	157.90 152.50 148.80	162.10 166.30 180.80	188.70 178.00 170.10 162.60 188.20	184.20 174.10	-86.55 -100.00 -78.01 -82.03 -61.03	-38,59 -33,33 -30,00 -27,96 -27,96	-19.92 -17.98 -17.98 -16.01 -16.01	-13.28 -11.57 -11.95 -11.95 -11.95	43 36 29.96 23.98 26.01 12.03	::	1.5 : 1.6 : 0.7 : 0.4 : 0.1 :	2.4 : 3.5 : 1.7 : 1.1 : 0.8 :	1G.3 11.3 9.4 8.7 6.9
2000-21000 21000-22000 22000-28000 28000-24000 24000-28000	1111.60 1127.60 1122.90	133.00 128.70 124.10	130.00 131.40 128.80	148.60 142.70 137.20 131.80 128.60	154.08 147.78 141.50 135.80 128.80	: -47.13 ! -48.18 : -38.04 ! -31.98 : -31.95	-23.98 -21.85 -20.00 -18.04 -17.88	-16.01 -14.06 -13.98 -13.98 -13.98	-12.03 -11.95 -11.95 -11.95 -11.95	2.03 3.98 5.24 1.95 0.00	11	0.0:	0.1: 0.1: 0.1: 0.0:	3.6 : 4.6 : 4.7 : 4.0 : 3.1 :
28000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1111.10 1106.80 1108.30	112.30 108.10 104.80	114.40 110.30 108.30	121.80 117.80 113.00 108.40 104.76	124.70 118.77 118.20 110.30 106.20	-28.01 -28.01 -22.01 -20.00 -17.86	-18.01 -18.01 -15.94 -13.98 -13.96	-13.98 -12.03 -12.03 -12.03 -11.95	-11.95 -11.95 -10.00 -10.00 -10.00	-3.98 -3.98 -7.97 -7.97 -7.87	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0:	1.8 1.1 0.4 1.0
30000-31000 31000-32000 32000-33000 33000-34000 34000-38000	: \$6.80 : \$3.60 : \$0.00 : \$6.80 : \$4.60	\$7.80 \$4.70 \$1.10 \$7.80 \$5.80	99.50 96.20 92.70 89.20 86.60	101.10 97.80 84.30 90.80 87.50	91.30	-18.01 -14.08 -20.00 -23.88 -20.00	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00	+10.00 -10.00 -10.00 -10.00 -0.05	-7.97 -7.97 -7.97 -7.97 -7.97	1 1	0.0 : 0.0 : 0.0 : 0.0 :	0.0	0.3

1200Z FIGURE B-6-4-C B-102

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE FT MSL		%FRQ		RCENTIL				RCENTI		ı			ERCENTI		į.			ERCENTI	
F1 MSL	. . .	7.FRU	10%	50%	90%	%FRQ	10%	50%	90%	·	%FRQ	10%	50%	90%	1	%FRQ	10%	50%	90%
SFC-500	i	4.8	89	295	443	16.4	98	384	522	;	98.7	1565	5900	15443	1	10.6	89	384	384
500-1000	:	0.3	197	394	591 :	0.9	98	591	797	:	2.7	1083	6299	34581	:	0.3	295	1033	1772
1000-1500	;	0.6	295	394	492	2.2	98	591	1181	;	1.2	98	7185	33991	1	0.3	689	935	1101
1500-2000	;	1.3	98	295	492	3.5	98	591	787	;	2.9	177	3051	33400	1	0.7	394	394	2165
2000-2500		2.2	197	295	728	3.7	98	689	1112	;	3.5	541	3593	10236	:	0.3	98	197	787
2500-3000	;	1.9	98	394	965 :	4.3	98	492	1161	1	4.8	98	1969	10926	:	2.4	98	738	1112
2000 -3500	1	3.0	217	394	768	3.3	98	591	1161	;	5.3	98	1575	4369	:	1.6	157	492	1043
3500-4000	:	3.2	98	394	591	4.6	98	295	984	:	6.2	98	1970	17028	:	2.4	98	492	1200
4000-4500	1	3.3	138	394	610 :	5.8	98	492	768	i	5.9	98	1476	9055		4.0	276	591	1207
4500-5000	1	4.5	197	295	492	7.5	98	246	591	:	11.8	246	2116	30250	:	2.9	295	394	1152
5000-6000		8.4	197	344	492	13.3	98	295	787	+	18.3	98	2510	29758	1	8.1	98	443	984
6000-7000	1	9.4	98	295	492 :	15.0	98	295	591	: :	21.0	98	2264	28577	1	9.7	197	591	984
7000-8000	:	10.1	197	295	492	15.0	98	295	591	: :	21.0	98	2756	27691	1	9.6	90	394	945
8000-9000	:	10.5	98	295	394	14.1	98	197	492	4 :	22.3	98	2461	26805	:	9.2	197	492	1378
9000-10000	:	7.8	98	197	394	11.4	98	295	394	l.	19.2	98	1772	25723	1	8.6	98	443	984
10000-11000	;	8.6	98	197	354	11.1	98	197	394	:	21.9	344	3543	24837	+-	9.5	197	591	1181
11000-12000	:	5.6	98	197	295	9.1	98	98	305	:	13.6	98	1280	23557	t	9.2	98	492	1063
12000-13000	;	4.8	98	197	295 :	7.3	98	197	295	1	15.7	98	3543	22671	1	10.2	98	492	1063
13000-14000	;	3.7	98	197	295 :	6.2	98	197	295	:	13.1	98	1969	20998		8.4	98	591	1122
14000-15000	:	2.9	99	197	197	4.5	98	98	295		13.3	98	2051	20407	1	9.7	98	492	1083
15000-16000	;	2.0	98	148	295	4.2	98	197	197	+: :	11.2	197	3511	19620	+-	5.0	197	427	1004
16000-17000		0.7	98	164	328 :	2.9	102	164	230	:	8.4	492	5495	10932	t	7.5	164	492	724
17000-18000	:	0.9	164	164	164	2.0	164	164	328		7.7	492	3281	17881	i	5.1	279	492	994
18000-19000	;	0.6	164	164	164	2.3	164	164	213	1	12.3	394	6233	16503	ì	7.8	164	410	654
19000-20000	1	0.1	164	164	164	0.7	164	164	164		4.6	361	7054	15584	i	5.4	164	492	673

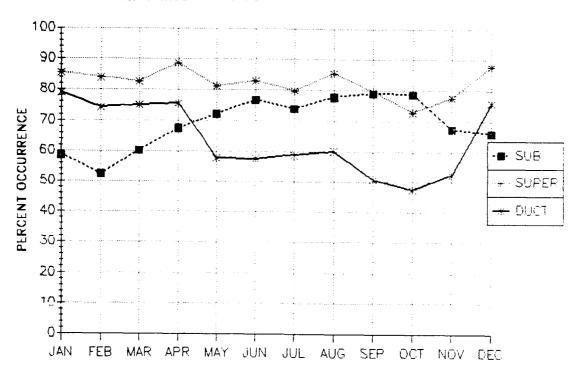
0000Z

BASE FT MSL	<i>:</i>	%FRQ	DUCT THK PE 10%	S RCENTIL 50%	ES :	%FRQ	SRLA THK PE 10%	B RCENTIL SOX	.ES 90%	;	%FRQ	NORM THK P 10%	AL ERCENT I 50%	LE8 90%	: : %F	RO	SUB THK PI 10%	ERCENTII 50%	- E8 90%
	-+-									+-					+		197	384	482
SFC-500	•	7.6	89	384	492 :	26.9 1.3	98 98	384	492 1476	:	97.9	1968 886	5315 6388	18593 19931	10		14/	264	462
1000-1000	ï	0.3	197 98	344 394	591 :	2.3	78 98	197 492	984		4.6	748	4921	15591		. 3	591	1034	1476
	:	0.7	295	2 95	394 :	2.3	98	394	1161	:	1.8	98	4724	13681			341	1034	1476
1500-2000 2000-2500		0.7	295 295	394	394 :	3.5	70 98	492	1161		2.4	413	3839	10132		. 4	295	591	689
2500-2500		1.5	217	492	669	4.1	98	492	984	:	4.6	344	2461	7824		. 0	591	591	884
3000-3500	:	1.7	226	295	591	3.1	98	295	856	;	4.4	354	2067	20125		. 3	98	394	787
3500~4000	•	3.4	28	295	6.	4.2	98	295	787	;	4.9	217	2362	31333		. 8	98	492	1220
4000-4500	:	2.5	197	394	689	5.2	98	492	689	:	5.8	98	984	21477		. 1	226	640	1024
4500-5000	- 1	3.7	167	295	591	7.0	98	197	787	i	8.3	98	1969	23688		. 2	98	295	1220
	_+-									·-					÷				
5000-6000	;	9.3	98	295	591 :	13.5	78	295	689	;	18.0	98	2904	29315	: 7	·. o	197	394	1230
6000-7000	:	8.6	197	295	492 :	13.5	98	295	669	;	19.5	98	2658	28675	, 7	. 5	98	443	915
7000-8000	1	7.9	98	295	492 :	12.0	98	295	591	i	20.0	78	2559	27691	: 9	. 4	128	591	1152
8000-9000	:	10.3	98	295	394 -	13.6	98	295	492	:	23.5	98	2362	26608	: 11	. 0	98	394	1280
9000-10000	:	6.8	98	295	394 ;	9.4	98	197	482		16.3	98	2021	25723	1 9	. 4	98	492	784
10000-11000		6.2	98	197	394 :	12.1	98	197	394		21.5	98	2067	24739	: 10	. 1	98	492	1093
11000-12000		4.9	98	197	295 :	7.6	98	197	394	:	16.0	98	2018	23656	1 10	. 0	98	394	1171
12000-13000		4.1	98	197	295	6.5	98	197	295	;	14.5	98	4101	22661	: 7	·. 9	98	492	984
13000-14000		3.7	99	98	295	5.8	98	197	295	;	12.1	98	2658	21707	; 0	1.3	98	492	1083
14000-15000		2.0	90	98	197 :	4.5	90	98	295	:	13.4	98	1673	20604	: 8	1.5	98	394	807
15000-16000	-+-	1.5	98	98	197 :	2.3	98	98	295	1	8.6	98	2674	19521	1 7	. 9	108	492	853
16000-17000		1.7	131	164	328 :	3.4	98	164	329	1	11.1	230	4593	18701		. 2	177	492	994
17000-18000		0.7	164	164	164	1.4	164	164	312	;	7.6	492	9022	17717		7. 1	197	492	920
18000-19000		ο. 4	164	164	164	1.1	164	164	328	į	9.7	328	15912	16897		. 2	164	492	820
19000-20000		0.1	164	164	164	0.8	164	164	164		6.8	984	15092	15584		3. 1	164	328	656

1200Z

FIGURE B-6-4-D B-103

AP PERCENT OCCURRENCE FREQUENCY



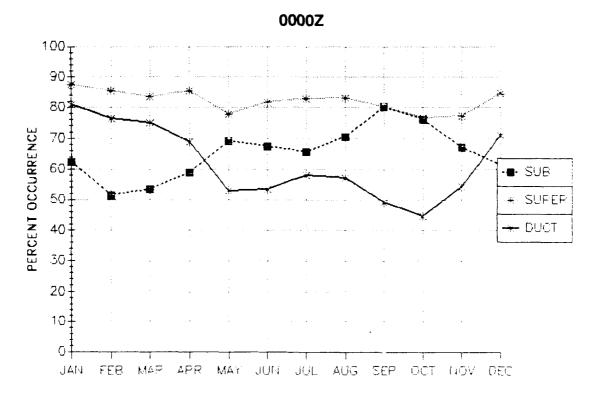
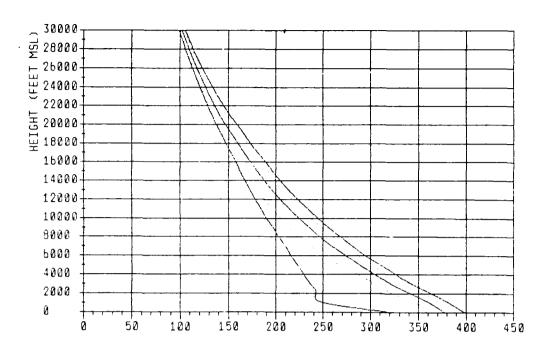
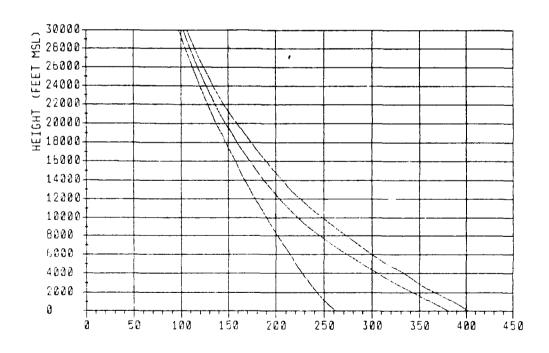


FIGURE B-6-5 B-104

1200Z



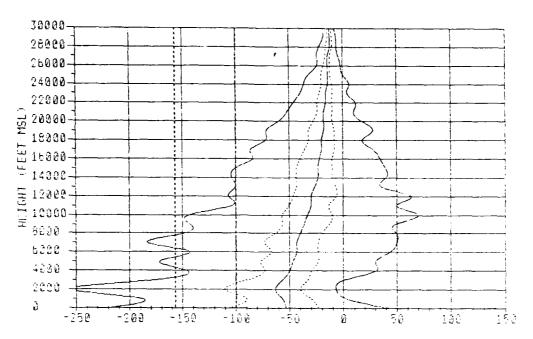
N (N-Units) 0000Z



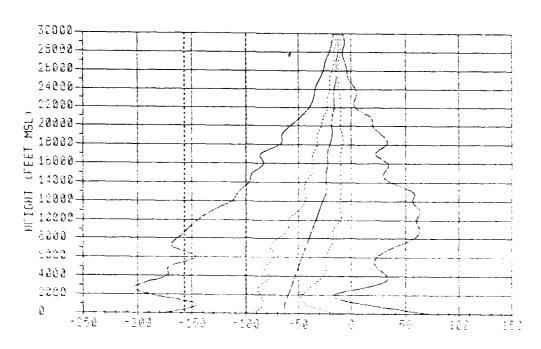
N (N-Units) 1200Z

FIGURE B-7-1-A B-105

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-7-1-B B-106

FT MSL	1%	N PERCENTILES	90%	55X	18	DND:	PERCENTILES SON SON		PERCENT	OCCURRENCE SRLR SVB
1000-1800 1800-2000 2000-2800 2800-3000 3000-3600 3800-4000 4000-4800	1280.88 1251.05 1201.80 1247.86 1244.10 1240.23 1236.74 1233.27 1238.70	371.79 383.79 362.18 373.69 363.78 366.00 342.76 368.00 330.62 347.69 318.76 336.76 307.81 324.26 298.76 316.20 290.60 307.18 280.60 307.19	383.68 383.68 375.58 367.67 367.67 357.67 326.68 316.68	383.80 384.87 376.66 364.93 384.80 342.98 334.70 327.20	1-261.12 1-121.33 1-169.56 1-217.39 1-265.16 1-209.77 1-156.77 1-156.77 1-166.54	-75.00 -77.08 -108.33	-80.41 -18.88 -50.00 -28.00 -52.08 -27.08 -68.33 -33.33 -82.50 -39.58 -80.41 -39.58 -58.33 -35.41 -54.19 -31.25 -52.08 -29.18 -50.00 -27.08	0.00 19.56 -12.80 -18.78 -2.73 -6.26 40.10 18.66	1 18.7 1	32.2 i 11.7 i 3.8 i 1.3 i 1.8 i 2.7 i 14.6 i 1.8 i 18.0 i 18.0 i 1.4 i 18.0 i 1.4 i 18.0 i 1.4 i 2.8 i 4.3 i 3.1 i 6.3 i 4.7 i
7000-8000 8000-8000 9000-10000	+	287.00 287.75 249.51 272.68 238.00 259.00 222.70 245.60 212.20 233.50	300.19 285.38 272.19 258.75 246.10	292.50 279.94 266.67 253.60	;-158.25 -139.58 -139.58 -178.21 -149.84 -130.01	-72.91 -88.75 -70.83 -82.30 -58.84	-48,83 -23.30 -43.78 -23.30 -41.68 -22.91 -37.80 -18.82 -33.33 -13.28	38.38 38.14 43.38 50.00 61.65	3.4 : 11 2.9 : 11 5.9 : 11 4.3 : 11 3.4 :	8.1 6.8 7.6 6.3 9.5 6.3 7.6 11.2 5.6 11.9
1000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1182.17 1178.50 1170.92 1185.31	203.49 222.70 194.60 212.60 188.10 203.40 179.80 194.80 171.70 188.20	235.10 224.87 214.60 208.07 197.50	231.80 220.70 211.73 202.30	I-136.72 I-100.88 I-103.38 I-106.64 I-100.00	-88.64 -80.00 -43.36 -43.43 -43.36	-33.33 -13.28 -29.90 -13.28 -26.68 -6.64 -26.69 -9.90 -23.44 -10.03	80.00 83.28 38.71 43.36	3.4 1.6 1.4 1.6 1.6	4.5 16.8 3.6 11.2 4.0 15.8 4.3 15.0 3.3 12.7
18000-17000 17000-18000 18000-18000 18000-20000	1155.16 1150.21 1144.90 1140.30	180.10 171.30 184.30 184.30 148.89 187.48 143.30 180.60	181.90 173.73 186.30 158.90	188.80 178.00 170.55 182.90	-83.88 -85.88 -73.88	-37.86 -34.06 -32.03 -31.95	-22.03 -7.87 -20.00 -7.87 -20.00 -6.02 -20.00 -10.00	34.01 28.93 23.98 29.04	0.0	2.7 18.2 2.2 12.2 1.8 16.2 1.7 9.8
21000-22009 22000-23000 23000-24000 24000-28000	1131.40 1127.28 1122.70 1116.52	134.10 139.60 128.60 134.40 124.60 129.20 120.40 124.25 118.50 119.60	148.30 140.30 134.30 128.40	149.80 143.50 137.30 131.00	1 -48.04 1 -43.39 1 -40.00	-23.98 -23.98 -21.95 -20.00	-18.01 -10.00 -18.01 -10.00 -18.01 -10.00 -14.08 -10.00	7.87 10.00 2.03 4.06	0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.6 : 6.8 : 0.2 : 6.1 : 0.2 : 6.1 : 0.2 : 4.3 : 0.0 : 6.6 :
28000-29000 28000-30000 30000-31000	108.60	112.80 115.40 108.30 111.00 104.80 108.80 101.20 103.20 98.00 99.70	118.60 114.00 108.21 105.30	120.70 115.80 110.80 106.70	[-23.98 [-23.98 [-18.08 [-17.98 	-16.01 -16.01 -14.06 -15.96	-13.99 -11.98 -12.03 -11.98 -12.03 -10.00 -12.03 -10.00 -11.98 -10.00	-3.98 -6.02 -6.02 -7.95	1 0.0 1	0.0 0.8 0.0 1.1 0.0 0.2 0.0 0.6
	92.80 1 89.27 1 88.70 1 83.40	94.70 98.30 91.10 92.70 88.00 89.30 95.80 88.70	98.00 94.40 90.70 87.70	95.30 91.40	-31.97 : -13.98 : -26.01 : -27.98	-12.03 -12.03 -12.03 -11.95	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -7.97	11 0.0 I 11 0.0 I 11 0.0 I	0.0 0.6 0.0 0.2 0.0 0.0 0.0 0.0

0000Z

HGT FT MEL	1%	H PERCENTIL 10% 50		98%	; 2 %	DND 10%	H PERCENT	TILES 90%	99%	II PERCENT	OCCURI SRLR	
SFC-500 500-1000 1000-1800 1900-2000 2000-2800 2900-3000 3000-3000 3000-4000 4000-4000 4500-5000	1311.15 1259.15 1253.63 1249.30 1245.13 1241.13 1236.93 1238.93 1229.53 1228.53	378.37 387. 384.78 376. 388.54 387. 348.37 387. 334.75 348. 322.50 337. 310.01 328. 289.74 318. 280.58 301.	75 387.50 31 377.50 88 387.58 00 357.87 25 347.37 69 337.00 00 328.07 69 319.88	395.06 364.73 374.97 364.25 354.06 343.64 335.56 327.34	1-227.67 :-136.93 :-126.60 !-170.93 !-196.67 !-191.66 !-197.50 !-189.56 !-189.00 !-185.04	-87.50 -83.33 -83.33 -89.58 -91.68 -81.25 -77.08	-58.33 -64.58 -92.50 -62.50 -82.50 -80.41 -58.33 -56.25 -54.18 -50.00	20.83 -37.50 -43.75 -46.83 -46.83 -47.75 -37.50 -37.50 -37.50 -37.50 -37.50	113.66 16.66 16.66 22.46 -0.62 1.83 9.77 39.56 43.16 33,33	11 9.4 1 1 2 2 1 1 1 0 1 1 1 2 9 1 1 1 2 9 1 1 1 3 2 1 1 1 1 3 2 1 1 1 1 3 2 1 1 1 1	21.2 3.8 3.9 7.2 7.7 8.7 8.0 8.3 5.1	27.1 i 3.1 j 2.0 i 2.2 i 1.7 ! 2.2 i 2.7 i 3.4 i 4.3 i
5000-8000 8000-7000 7000-8000 8000-8000 9000-10000	;220.30 ;214.40 ;208.01 ;201.08 ;184.70	266,44 287. 248,40 272. 234,30 288. 221.50 244. 210.10 231.	50 285.38 25 271.75 50 258.69	293.06 260.25 266.88	!-154.16 :-152.00 :-159.45 :-166.66 :-139.97	-73.36 -66.66	-80.00 -46.83 -41.66 -37.50 -33.33	-23.37 -23.30 -19.92 -16.66 -16.36	22.91 20.83 41.68 59.90 56.76	11 4.4 1 11 4.2 1 11 6.6 1 11 6.3 1 11 3.6 1	10.0 8.8 10.3 8.5 7.6	8.9 1
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	:182.80 :176.90 :171.30	200.20 221. 191.90 211. 184.30 202. 177.72 193. 171.11 185.	40 224.00 50 214.10 80 205.80	230.80 219.70 210.80	i-149.93 i-116.66 i-116.33 i-106.84 i-93.36	-48.74 -43.36 -43.36	-30.07 -29.95 -26.69 -26.56 -23.30	-10.03 -10.03 -10.03 -10.03 -10.03	09.88 09.99 06.31 48.74 39.87		9.1 4.4 4.1 5.4 3.9	12.2 (13.0 (14.7 (
15000-16000 16000-17000 17000-16000 18000-19000 18000-20000	:155.67 :150.44 :148.12	165.20 177. 159.90 171. 154.00 163. 148.40 157. 143.30 150.	30 182.00 90 173.90 10 166.40		: -81.21 ! -81.07 ! -70.00	-36.93 -33.99 -31.96	-23.30 -22.03 -20.00 -20.00 -10.04	-10.03 -9.96 -10.00 -8.06 -10.00	33.01 30.00 29.08 36.01 20.00	1; 1,2; 1; 0.8; 1; 0.8; 1; 0.8; 1; 0.8;	3.2 3.0 2.2 1.2 0.8	10.6
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1130.99	138.40 145. 133.90 139. 129.40 134. 124.60 129. 120.30 124.	70 146.30 50 140.40 20 134.50	155.70 149.40 143.10 137.20 130.90	-57.96 -47.96 -40.00 -32.03 -36.01	-24.08 -22.03 -20.00	-17.96 -17.96 -18.01 -16.01 -15.94	-10.00 -10.00 -10.00 -10.00 -11.95	22.03 10.00 3.98 3.98 2.03	:: 0.3 (:: 0.0 : :: 0.0 : :: 0.2 : :: 0.0 :	0.6 0.2 0.0 0.2	7.0 5.3 5.6 4.1
25000 - 26000 26000 - 27000 27000 - 26000 26000 - 29000 29000 - 30000	:109.90 :105.80 :101.36	118.30 119. 112.50 115. 108.32 111. 104.70 108. 101.30 103.	30 118.70 00 114.00 90 109.30	125.60 120.70 115.90 110.80 108.80	-27,98 -28,93 -22,03 -20,00 -17,89	-16.01 -16.01 -14.06	-13.88 -13.99 -12.03 -12.03 -12.03	-11.95 -11.95 -10.00 -10.00	-2.03 -3.98 -7.97 -8.02 -7.87	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 0.0 0.0	1.2 1
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	86.40 83.20	98.00 99. 94.70 98. 91.10 92. 87.90 89. 65.70 86.	30 98.04 80 94.50 30 90.70	91.44	-16.01 -30.94 -13.99 -27.96 -28.01	-12.03 -12.03 -12.03	-11.98 -11.98 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -8.02 -7.97 -7.97 -7.97	1: 0.0 ! 1: 0.2 ! 1: 0.0 ! 1: 0.0 !	0.0 0.0 0.0	0.2 I 0.8 I 0.2 I

1200Z FIGURE B-7-1-C B-107

THICKNESS STATISTICS

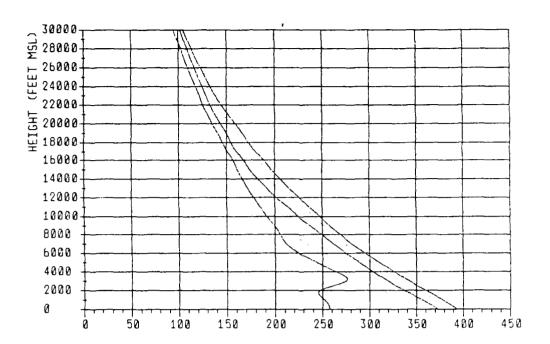
BASE	;			RCENTIL				RCENTIL		į			ERCENTI		!		RCENTI	
FT MBL		%FRQ	10%	50%	90% :	%FRQ	10%	50%	90%	!_	%FRQ	10%	50%	90%	: %FRQ	10%	50%	90%
SFC-500		18.7	82	279	377 :	32.2	98	279	377	1	78.2	1165	4864	34975	1 11.7	190	279	377
500-1000	:	0.7	197	394	884 :	0.7	98	492	984	i	2.0	98	5700	34522	0.7	98	197	295
1000-1500	:	2.3	177	394	591 (4.3	78	787	1319	i	4.0	99	5957	34009	1.8	110	394	450
1500-2000	;	5.6	197	394	591 :	11.4	98	394	1083	:	6.3	98	3642	33400	0.7	197	295	591
2000-2500	;	3.1	98	394	650 :	7.0	98	394	1181	1	10.1	925	7677	32929	0.5	98	295	591
2500-3000	;	4.5	98	394	689 (9.4	78	394	1083	1	11.4	738	6349	32317	1.3	98	295	489
3000-3500	;	2.2	98	295	561 :	4.7	98	197	817	;	9.2	364	4085	27081	0.7	394	541	467
3500-4000	;	1.4	98	246	591 :	2.2	78	197	994	;	5.2	98	5266	15579	2.2	224	295	1290
4000-4500	:	1.1	98	246	394	2.9	78	394	719	t	3.8	98	4330	28662	2.0	98	492	927
4500-5000	1	2.3	138	295	749	4-1	98	394	846	1	4.5	650	6201	30349	2.9	98	787	1211
5000-6000		2.3	128	295	492 1	5.4	78	295	787	1	9.5	98	3740	29601	4.5	157	591	1290
6000-7000		2.7	98	295	571 :	5.4	98	394	591	,	9.5	98	4095	20311	4.5	147	492	1299
7000-B000	1	5.0	98	246	492 ;	8.3	98	295	591	:	11.0	98	2559	13563	6.3	98	492	994
8000-9 000	1	3.6	98	295	394 1	5.9	98	295	591	ì	11.7	98	1575	11925	9.1	99	492	1101
9000-10000	:	3. 1	98	197	413	4.1	98	148	394	1	12.1	98	1132	11394	2 2.1	98	492	1083
10000-11000		3.2	98	197	394	6.0	98	197	394	-	17.0	98	2954	24738	10.1	98	492	925
1000-12000	:	1.6	98	197	394 :	3.1	92	197	413	1	9.8	98	1919	23547	7.8	98	591	1280
2000-13000	1	1.4	98	78	197 1	3.8	78	197	394	1	12.1	98	3757	22740	10.0	98	394	1209
3000-14000	:	1.6	98	197	295 :	4.0	99	246	394	t	12.5	98	2264	21588	11.4	99	394	945
4000-15000	:	1.6	9 8	98	295	3.1	98	197	394	1	10.9	90	3347	20801	7.2	98	394	984
5000-16000	-+-	2.0	98	98	197 :	4.2	98	148	295	1	12.3	99	1903	19620	9.1	98	361	771
16000-17000	1	0.7	131	164	164	2.7	118	164	329	1	11.4	164	2297	19701	1 10.0	164	394	961
7000-18000	1	Ú.2	164	164	164 :	2.0	164	164	295	:	11.1	326	2789	17435	9.3	144	492	820
8000-19000	:	0.9	164	164	164 :	1.8	164	164	312	1	16.3	492	15912	16651	1 13.2	164	492	820
9000-20000	:	0.6	164	164	164	1.5	164	164	164	:	9.0	986	14928	15584	7.2	164	328	820

0000Z

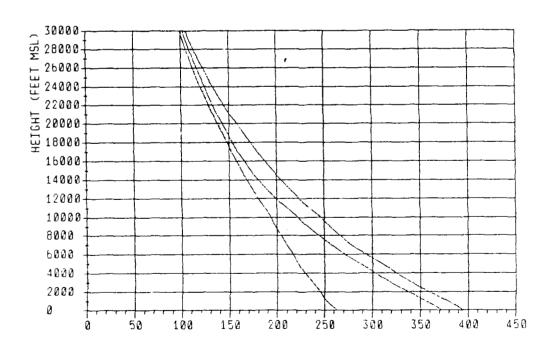
BASE : FT MBL :	%FRQ	DUCT THK PE 10%	S RCENTIL SOX	E8 :	%FRQ	SRLF THK PE 10%	RCENTIL SO%	E8 1	1	XFRQ	NORM THK PI 10%	AL ERCENTI SOX	LES 90%	1	%FRQ	SUB THK PE	RCENT!	L ES
	 			+					+									
8FC-500	9.4	82	279	433	21.2	98	279	512	:	97.6	1289	7070	34975	1	27.1	279	377	377
500-1000	0.2	492	492	492 :	0.9	78	394	984	1	4.1	78	2824	34561	1	1.2	98	394	1181
1000-1500	0.9	295	394	689	2.6	98	689	1476	:	2.7	98	8248	34109	1	0.5	295	492	884
1500-2000	2.7	78	394	748	4.9	98	443	1083	:	4.3	98	3150	33302	1	1.4	98	394	591
2000-2500	2.2	1 28	492	866 :	4.1	98	98	1220	1	4.8	78	4921	32908	1	0.9	98	492	797
2500-3000 :	3.2	90	394	7 97 :	4.9	98	443	1063	ŀ	7.0	98	3051	20840	1	1.7	98	344	1152
3000-3500	1.7	108	394	679 ;	4.4	98	197	945	1	5.6	98	3248	24607	:	1.2	394	394	1772
3500-4000 :	2.2	138	295	650 :	3.1	78	295	728	t	5. 1	413	3740	31421	4	1.9	315	591	1260
4000-4500	2.4	98	394	640	2.9	98	591	699	:	4.3	98	1575	8743	1	2.2	78	492	728
4500-5000	3.4	108	295	394 :	6.8	98	295	797		9.8	99	4724	30250	1	4.2	92	295	1112
5000-6000	 2.9	98	295	492 :	6.9	98	394	846		12.4	78	2756	29660	;	3,2	76	492	1240
6000-7000	4.2	98	295	433 1	6.8	98	492	886		8.6	98	2264	13921	1	5.2	98	344	984
7000-8000 :	4.4	98	197	295 ;	7.3	98	246	591	:	15.7	98	2756	27652	i	7.1	98	394	984
8000-9000	5.9	98	197	394 :	7.4	98	295	492	:	14.6	98	2854	26412	;	11.7	197	394	1083
9000-10000	2.9	98	197	315 :	6.8	98	295	571	ı	13.0	98	2559	25408	ŧ	9.1	98	394	884
10000-11000	 4,9	98	197	295 ;	8.5	98	197	443	• !	18.6	96	2362	24837	+-	11.2	98	394	1240
11000-12000	3.0	98	197	295	3.7	98	197	394	i	12.4	98	2264	23360		8.6	98	394	1083
12000-13000	2.7	98	98	197	3.6	98	197	295	:	11.2	98	1772	22592	i	9.0	99	394	1024
13000-14000 :	2.4	98	98	197	4.9	98	197	295		14.0	98	1575	21402	i	11.0	90	295	965
14000-15000 :	1.5	98	98	197	3.6	98	197	276	:	13.0	98	2494	20407	t	9.1	98	394	1083
15000-16000 :	 1.2	98	98	197 :	3.0	98	197	295	• :	9.8	98	2625	19492	+-	6.9	78	394	1083
16000-17000	0.7	164	144	164	2.7	121	164	213		10.3	279	3527	18586		10.2	164	459	820
17000-19000	Ú.5	164	164	164	2.0	164	164	164	:	9.6	492	3117	17717	;	7.6	164	492	820
18000-19000	0.9	164	164	164	1.2	164	164	164	:	13.9	492	4019	16618	į	12.0	164	328	820
19000-10000 :	Ú. S	164	164	164	0.5	164	164	328		8.9	738	15092	15749	:	7.8	164	328	820

1200Z

FIGURE B-7-1-D B-108



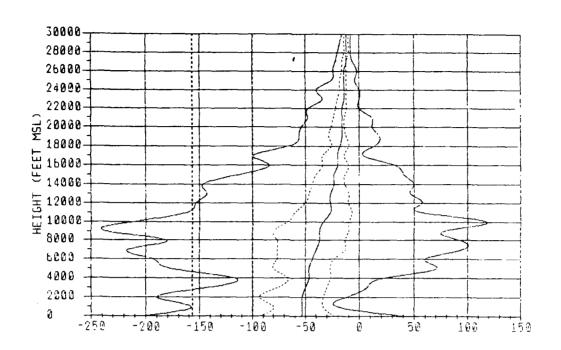
N (N-Units) 0000Z



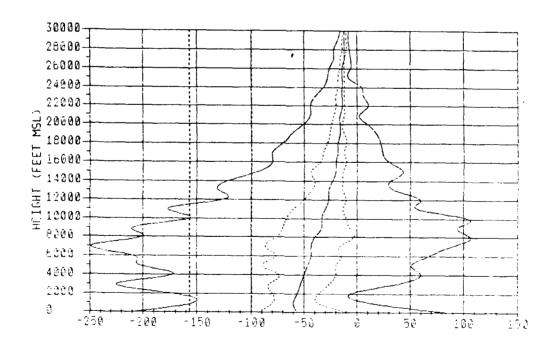
N (N-Units) 1200Z

FIGURE B-7-2-A B-109

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-7-2-B B-110

BELIZE

WET-DRY TRANSITION

not FT Mel	1%	N PERCENTILES	90%	56X	1 1%	DND 10%	H PERCENTILES	99%	PERCENT	OCCURRI BRLR	SUB I
SFC-500 500-1000 1000-1500	1260.86 1256.66 1253.80	356.06 379.38 344.72 369.50 337.00 361.26	381.38	389.69	1-243.16 1-113.60 1-144.39	-127.08 -77.08 -77.08	-56,25 -4.17 -54,16 -33,33 -58,25 -35,41	91.68 -20.63 -20.01	18, 1	23.1 2.8 4.8	18.8 0.0 1.0
1500-2000 2000-2500 2500-3000	1280.37 1247.80 1286.45	328.41 391.88 320.21 342.19 311.71 331.68	354.25 344.27	3 1.41 3t09	1-105.00 1-191.68 1-100.94	-83.33 -98.83 -93.78	-86.28 -38.41 -86.28 -33.33 -84.16 -33.33	-20.08 8.33 10.42	11	7.3 : 9.8 : 9.9 :	1.0 :
3000-3500 3500-4000 4000-4500 4500-5000	1280.27 1072.00 1288.38 1281.50	303.37 322.25 287.21 314.08 289.22 306.58 282.52 299.38	328.78 317.80	333.89 328.68	1-145.83 1-131.79 1-113.60 1-137.83	-77.08 -72.91 -68.66 -66.66	-50.00 -31.25 -50.00 -29.16 -47.91 -27.08 -45.83 -25.00	4.87 8.25 15.08 33.33	1: 1.3 : 1: 1.3 : 1: 1.3 : 1: 1.3 : 1: 1.3 : 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	6.1 : 4.1 : 2.9 : 3.2 :	2.2 I 2.2 I 4.1 I 7.0 I
3000-8000 8000-7000 7000-8000 8000-9000 9000-10000	:240.83 :228.10 :213.80 :208.77 :108.68	270.19 287.69 201.80 273.88 233.71 261.20 220.20 248.00 207.80 234.60	200.19 273.75 201.41	293.61 280.38 266.06	:-177.47 i-180.31 i-219.97 :-208.64	-77.06 -78.00 -79.88 -78.00 -73.80	-48.83 -28,00 -48.78 -22.91 -59.87 -13.28 -38.89 -13.28 -36.89 -10.03	73.87 73.75 93.28 90.82 81.38	1! 7.3 ! ! 6.0 ! !! 7.6 ! !! 9.2 !	0.0 11.7 11.7 13.0 12.7	9.5 8.2 15.2 15.2 15.6
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	:183.95 :177.88 :171.90	198.00 222.50 190.55 211.55 183.10 199.45 175.70 189.40 189.40 180.00	220.85 215.90 206.45	233.34 222.70 212.44	(-202.05 ;-171.52 ;-151.92 ;-149.67 ;-143.30	-83,41 -83,28 -50.00 -46,74 -46.61	-30.07 -10.03 -29.95 -9.98 -29.69 -10.03 -26.56 -13.29 -23.30 -13.41	122.10 60.02 73.30 60.00 36.71	!! 8.9 ! !! 8.1 ! !! 5.4 ! !! 4.9 !	11,4 ; 10.8 ; 9.8 ; 7.8 ; 0.4 ;	19.7 19.3 14.6 18.3 11.6
15000-16000 18000-17000 17000-180 18000-190 19000-200	1161.10 184.00 .70 .20	163.80 172.10 188.20 185.40 182.70 188.40 147.10 152.80 142.20 148.80	190.70 172.78 195.20	186.40 177.80 170.21	:-103.33 :-98.08 :-73.88 :-70.00	-39.97 -36.01 -30.00 -26.01 -27.96	-20.05 -13.26 -20.00 -13.41 -18.04 -12.05 -17.96 -10.00 -18.01 -13.98	43.25 58.62 18.01 17.86 12.78	11	5.1 : 6.1 : 1.6 : 1.6 :	10.2 9.9 8.7 9.8 6.1
20000-21000 21000-22000 -3000-23000 23000-24000 24000-25000	138.70 1131.40 1127.15 1122.34 1118.00	137.50 141.40 133.00 138.50 128.70 131.80 124.00 127.20 119.80 122.80	144.80 138.80 132.60	155.84 .49.42 143.30 137.2. 131.10	-55.86 -48.78 -48.07 -48.07 1-32.03	-24.06 -23.98 -21.97 - 9.04 .8.04	-18.01 -13.98 -18.01 -12.03 -14.08 -11.98 -13.98 -11.98	14.77 11.99 0.00 2.03 -1.97	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0 ; 0.0 ; 0.3 ; 0.0 ;	6,8 1 6,1 1 3,6 1 2,3 1
25000-28000 28000-27000 27000-28000 28000-28000 28000-30000	:109.80 :105.52 :101.10	118.00 118.40 112.20 114.80 108.10 110.40 104.90 108.40 101.10 102.80	117.70 113.10 108.60	125.70 120.58 115.59 110.40 106.40	-26.01 -24.08 -12.03 -19.83 -18.07	17.96 -16.01 -14.06 -13.98 -13.98	-13.98 -11.95 -12.03 -11.95 -12.03 -10.00 -12.03 -'0.00 -11.95 -10.00	-2.40 -3.99 -7.97 -7.97 -7.97	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0 ^ ; 0.0 ! 0.7 ! 0.0 !	1.7 1.3 0.3 0.0
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	1 93.92 1 90.20 1 86.59 93.37 1 90.38	97.8C 99.50 94.70 98.20 91.10 92.70 87.90 89.30 95.70 86.80	97.79 94.30 90.70	102.50 98.80 95.40 91.50 88.20	: -18.04 : -18.04 : -17.98 : -25.93 : -23.98	-12.03	-10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -7.97	-7.87 -8.02 -7.87 -7.87 -7.87	11 0.0 ! 11 0.0 ! 11 0.0 ! 11 0.0 !	0.0 0.0 0.0 0.0 0.0	0.7 0.8 0.0 0.0

0000Z

EGT FT MSL	18	N PERC	ENTILES	90%	58% /	t %	DND	H PERCEN	TILES DOX	99x	11	PERCENT DUCT :	OCCUR!	
8FC-500	:268.40	302.40	378.00	348.37	396.50 :-		-114.58	-84.16	14.58	122.91	-++	9.4 1	19.6	23.6
500-1000 1000-1500	288.44	348.04	369.00	301.10	390.24		-87.80	-80.41	-22.91	22.46	1.7	3.7 1	8.2	8.7
1500-1500	1254.40	337.25 328.11	360.50 351.69	371.81 382.38	380.80 : 370.25 :-		-83.33 -79.18	-60.41 -60.41	-33.33 -37.50	12.50	11	2.0 1	5.2	
2000-2500	243.20	319.00	342.30	382.67	380.19		-91.28	-50.33	-39.50	25.00 -8.33	11	1.7 1 2.8 (8.4	
2500-3000	12.2.10	310.50	332.00	343.08	350.46 1-		-79.16	-56.25	-33.33	-0.45	ii	3.0 i	7.7	
3000-3500	:237.61	300.82	322.00	333.08		-285.72	-87.50	-54.16	-30.07	16.66	1.1	4.9 1	7.7	
4500-4000 4000-4500	233.86	290.04	313.30	324.75	332.23 !-		-77.08	-52.08	-28.00	59.33	1.1	3.2 1	4.9	
4500-5000	1226.50	283.64 278.28	305.50 290.06	317.19 310.19	328.82 :- 319.19 :-		-72.91 -83.33	-80.00 -47.81	-23,30 -20,63	39.58 66.25	11	1.7 :	10.6	
5000-6000	:220.36	261.93	.25.06	299.19	300.02 :-	202.54	-87.50	-47.91	-16,58	54.16	11	0.4 (14.3	11.6
6000-7000	1214.88	244.50	270.06	284.08	291.30 !-		-75.00	-43.75	-14.56	77.98	11	7.6 1	11.5	
7000-8000	1209.26	228.50	256.50	271.00	277.80 :-		-88.58	-41.00	-13.83	72.91	1.1	8.6 1	17.5	
9000-9000 9000-10000	1203.26	215.70 204.90	242.30 229.70	258.00 245.90	265.38 :- 253.58 :-		-76.86 -69.92	-36.71 -,3.33	-3,28 -8,77	116.66 86.71	1 1	8.8 : 8.7	13.1	
10000-11000	1191.60	196.30	218.50	235.60	243.84 :-	178.69	-66.66	-30.07	-10.03	101.40	-++	B :	9.1	18.7
11000-12000		186.90	207.80	224.33	231.40 :-		-59.93	-29.98	-17.28	58.68	1.1	. 3 1	10.1	
12000-13000		101.01	198.80	21/ 10	220.70 1-		-50.00	-24.69	-9.90	54.85	1.1	1.2 1	7.1	
13000-14000		175.00 188.90	168.70 178.00	204.53 195.69	211.20 1-201.74 1-		-43.30 -39.97	-23.30 -23.30	-13.41 -13.28	36.71 36.71	1 1	2.2 t 3.4 t	5.9 5.9	10.8
15000-16000	:141.30	193.40	170.10	187.00	193.44 :	-86.59	-39.97	-20.05	-13.28	41.24	-++	1.7	2.7	
1600C 17000		187.90	183.80	179.50	105.25 1		-33.98	-19.92	-11.95	30.04	1.1	0.7	3.2	9.9
17000-18000		152.5	157.20	171.70		-09.27	-30.00	-17.98	-11.95	28.29	1 1	0.0	1.5	
19000-20000		142.00	146.60	164.10 158.80		-75.88 -50.00	-27,98 -26.01	-18.01 -18.01	-11.98 -13.98	22.00 11.95	1 1	1.0	0.6	9.4
20000-2100	136.00	137.30	140.70	150.30	155,27 ;	-48.02	-23.98	-10.01	-13.98	10.00	11	0.2	0.2	4.7
21000-220C	131.80	132.90	135.90	144.15	148.70 1	-43.98	-22.03	-18.94	-12.03	0.00	11	0.0 i	1.9	
22000 - 23000		128.60	131.50	138.30		-43.80	-20.00	44.98	-11.95	12.01	: :	0.2 1	0.0	
23000-24000		123.80	127.00	132.50	136.60	-33.98	-18.04	-13.98	-11.95	6.02	11	0.0	0.0	
	- •						-18.04	-17.98	-11.98	-1.90	; + + -	0.0 :	0.5	3.2
25000-26000		115.80	110.30	122.10	124.90		-17.98	-13.96	-11.95	-7.87	1.4	0.0 :	0.0	
26000-27000 27003-26000		112.10	114.30	117.40	120.09 :	-23.98 -21.98	-16.01 -14.00	-12.03	-11.98	-6.94	1 1	0.0	0.0	
20000-20000		104.40	106.20	108.40		-18.04	-13.99	-12.03	-10.00 -10.00	-8.02 -7.97	11	0.0 ;	0.0	
29000-30000		101.00	102.70	104.69	106.20		-13.98	-11.95	-10.00	-7.97	11	0.0	0.0	
10003-31000		97.80	99.40	101.00		-16.01	-12.03	-10.00	-10.00	-7.97	11	0.0	0.0	
31000-32000		94.60	96.10	97.70		-30.00	-12.03	-10.00	-10.00	-7.97	: :	0.0 :	0.0	
32000-33000 33000-34000	97.94	91.00	92.80 89.20	94.20	95.40 : 91.40	-17.90 -23.90	-12.03	-10.00	-10.00	-7.97	1.1	0.0	0.0	
34000-35000		85.70	86.60	87.60	88.20		-12.03 -10.00	-10.00 -10.00	-10.00 -7.97	-7.97 -7.97	11	0.0	0.0	

1200Z FIGURE B-7-2-C B-111

THICKNESS STATISTICS

BASE	:			RCENTIL				ERCENTIL		ı			ERCENTI				ERCENTIL	
FT MBL	í.	XFRQ	10%	50%	90%	%FRQ	10%	50%	90%	1	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%
9FC-500	-	13.3	82	279	377 :	23.1	98	279	377	-	99.4	1457	7316	34975	15.5	115	279	4
500-1000	:	0.6	98	246	394 :	0.6	591	738	886	1	1.0	2461	4527	15650	0.0			
100" 500	:	1.0	98	394	591 :	3.8	98	787	1299	;	1.9	98	2165	8366	1.0	394	394	49
15" -2000	:	2.9	98	394	591 :	3.5	98	394	1083	:	4.4	78	5907	16719	1.0	197	787	- 4
20 J-2500	t	2.5	197	394	591 :	6.3	98	591	1339	:	4.8	1969	5708	19954	1.0	295	394	1181
?\$00-3000	:	2.2	98	394	787 !	3.8	78	394	1083	;	7.6	699	3937	32465	1.4	295	492	591
300c - 3500	:	0.3	295	295	295 :	1.9	98	295	984	1	5.7	965	3051	15092	1.0	98	394	1083
3500-4000		1.3	98	295	295 ;	1.9	197	344	684	;	3.2	384	2510	28947	1.6	295	1083	1379
4000-4500	;	0.4	197	246	295 :	1.6	98	295	591	:	3.2	157	1949	7293	2.5	98	541	1280
4800-5000	;	2.5	197	344	984 :	2.2	9E	295	886	:	4.0	138	2904	30250	3.5	197	295	1024
2000-6000	-	6.0	98	197	394 :	7.9	98	197	689	-	13.0	98	1870	13426	7.3	130	394	1494
4000-700C	;	5.4	98	197	512	9.8	98	295	640	1	14.6	98	2165	28380	7.0	98	492	1309
7000-8000	:	7.3	98	295	551 :	9.5	98	295	689	:	15.2	98	2067	27514	12.3	197	591	1083
8000-9000	;	8.5	177	295	394 :	11.1	98	295	719	1	18.7	98	1870	26490	9.2	197	492	1063
9000-10000	1	6.3	108	295	394 :	10.8	98	197	689	1	18.7	99	1476	25792	11.4	78	492	784
0000-11000	;	8,3	98	97	394 ;	9.2	98	197	394		23.5	 98	2165	24797	12.4	197	492	1024
1000-12000	;	5.7	98	197	295 :	10.2	78	295	492	:	17.2	98	1821	23459	10.5	98	492	730
2000-13000	:	4.5	98	98	295 :	7.0	98	197	394	:	17.5	98	1575	22770	11.8	79	394	1063
3000-14000	1	4.5	98	246	295 :	6.1	98	197	295	:	15.9	98	5413	21825	10.5	78	492	864
4000-15000	;	4.1	98	197	295	5.1	98	1 9 7	394	1	13.7	364	1985	20604	6.7	98	443	797
5000-16000	•	1.0	98	197	275 :	5.1	98	98	226	1	10.8	98	4193	1964(8.6	78	328	1017
6000-17000	:	0.6	164	164	164 :	4.8	118	164	230	;	10.8	157	2789	19570	7.0	164	328	692
7000-18000	t	0.0			;	1.6	164	164	328	:	6.1	164	17225	17881	5.4	164	492	984
B000-19000	:	1.0	164	164	164	1.6	164	164	328	;	9.9	213	15912	16733	7.3	164	456	820
9000-20000	,	0.0				1.0	164	164	164		5.2	427	15092	15584	4.5	164	322	454

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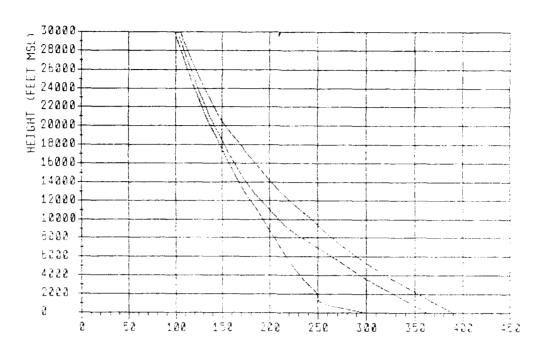
BASE :		DUCT THK PE	S RCENTIL	ES :		BRLR THK PE	S RCENTIL	_E8		NORM.	AL ERCENTI	LES	1	BUB THK P	ERCENTI	LES
FT MSL :	%FRQ	10%	50%	90%:	%FRQ	10%	50%	90%	XTRQ	10%	50%	90%	XFRQ	10%	50%	90X
BFC-500 :	9.4	82	295	476 ;	19.6	98	295	669	96.0	476	6086	35073	23.6	197	377	476
500-1000	1.2	98	394	591 :	2.2	98	98	984	9.6	571	6102	33347	1.0	98	492	984
1000-1500 :	1.2	98	295	591 :	2.7	98	591	1555	4.0	98	3051	17573	1.7	197	492	1280
1500-2000 :	1.5	98	295	689 .	3.0	98	591	1290	3.2	1299	3740	24863	0.5	492	541	591
2000-2500 :	2.0	197	295	591 :	2.7	98	394	1240	3.7	630	2953	19738	1.0	295	344	492
2500-3000 :	2.0	98	443	787 :	4.7	98	492	884	6.4	98	1969	8084	1.5	98	541	1181
3000-3500 :	3.7	197	394	827 :	4.2	98	197	925	4.9	226	3494	15719	1.0	689	1476	1673
3500-4000	1.2	197	394	492 :	2.5	207	443	866	4.0	78	1378	17431	3.2	295	499	1201
4000-4500 :	1.0	197	394	492 :	4.0	98	492	906	4.2	98	1870	13629	2.5	138	541	778
4500-5000	5.4	197	394	492 :	7.9	98	295	758	10.3	98	2707	13773		197	394	1270
5000-6000 :	5.2	98	295	571	9.6	98	295	571	19.2	98	1772	18672	9.1	98	492	1083
6000-7000 :	6.9	98	295	394 :	10.1	98	197	610	15.0	98	1280	28291	8.4	177	492	886
7000-8000 I	8.4	78	295	394	14.8	98	295	591	21.9	98	1280	27691	11.1	98	492	1339
9000-9 000 I	8.1	98	197	492 :	9.4	98	295	492	20.2	99	1673	26589	15.0	157	394	1319
9000-10000 :	5.4	98	197	394 :	11.3	98	197	482	19.9	98	1821	25021	8.9	98	640	1368
0000-11000	6.4	78	197	315 :	8.4	98	197	492	22.9	98	2707	24837	13.1	78	344	1083
1000-12000 :	4.4	98	197	394	9.4	98	295	394	17.0	98	2764	23656	9.9	98	591	1122
2000-13000 :	3.9	76	197	325 :	6.7	98	197	303	16.0	98	2658	22573	10.3	98	394	689
3000-14000 :	2.2	98	197	295 :	5.4	98	197	394	13.5	98	3051	21805	7.9	98	492	1093
4000-15000 1	3.4	78	98	246	5.7	98	148	325	11.6	98	2969	20575	6.9	98	394	1083
5000-16000	1.7	98	197	295 :	2.0	78	98	197	8.1	525	4905	19866	6.2	157	525	1070
6000-1 *500 :	0.7	98	164	64:	3.2	98	164	203	9.1	164	4249	18695	6.9	164	492	820
.7000-18000 :	0.0				1.5	164	164	164	6.4	164	5249	17881	4.9	164	492	1115
B000-19000 :	1.0	164	164	164 :	2.0	164	164	328	9.4	492	8694	16733	7.1	164	328	820
9000-20000 :	0.2	164	164	164	0.5	164	164	164	5.9	1558	15174	15584	4.2	164	328	755

1200Z

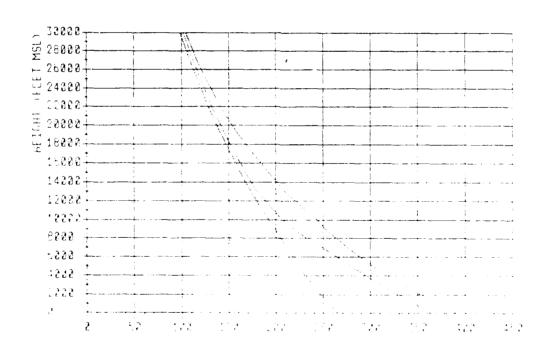
FIGURE B-7-2-D

B-112

BELIZE DRY SEASON



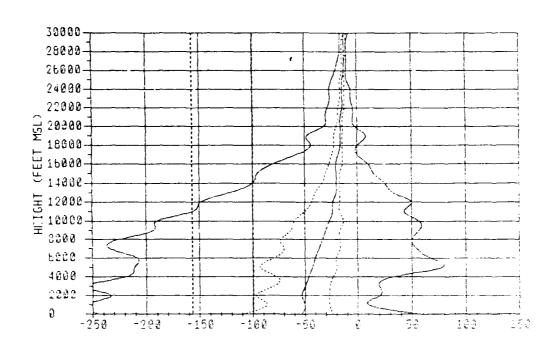
N (N-Units) 0000Z



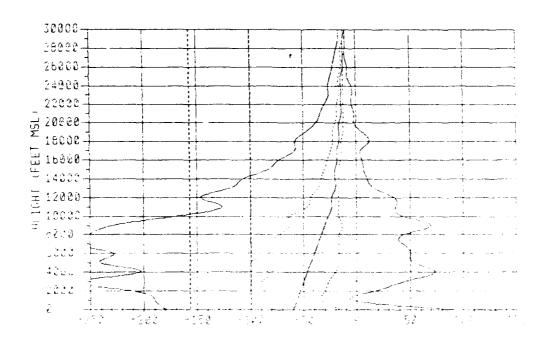
N (N-Units) 1200Z

FIGURE B-7-3-A B-113

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-7-3-B B-114

BELIZE DRY SEASON

FT MSL	1 1 %	N PERCE	NTILES SOX	80%	99%	1%	DND:	E PERCENTI	LES	8 8 K		PERCENT JOT	OCCURR BRLR :	SUB :
SFC-500 500-1000 1000-1500 1500-2000 2000-2700 2500-3000 3500-3500 3500-4000 4500-5000	1292.81 1257.70 1253.92 1280.51 1246.91 1242.73 1239.16 1233.91 1230.07 1226.85	332.36 326.50 318.06 310.00 301.50 292.52 283.21 273.69	369.25 356.86 350.75 342.00 333.36 313.50 305.06 297.50 289.75	383.50 374.19 365.00 356.38 347.50 337.68 328.04 320.06 312.50 305.06	384.19 374.37 384.68 355.38 346.58 336.97 326.38	1-287,28 (-149.61 1-227.08 1-286.37 1-222.78 1-223.4.7 1-289.46 1-202.81 1-230.82 1-199.80	-143.76 -78.16 -03.32 -09.03 -95.03 -91.66 -03.33 -72.08 -72.81 -03.33	-50,00 - -50,00 - -50,00 - -50,00 - -50,00 - -50,00 - -48,83 -	14.58 27.08 27.08 27.08 27.08 27.08 27.08 27.08 23.82 23.30	77.08 -4.17 -7.42 12.80 32.83 14.88 16.39 37.20 27.08 33.33		14.8 1.6 3.9 6.4 5.2 5.7 5.3 5.7 4.1 5.3	28.4 : 4.3 : 8.4 : 10.8 : 10.0 : 11.0 : 6.2 : 5.2 : 5.9 : 9.8 :	1.4 i 5.0 i 2.8 i 2.7 i 2.3 i 3.0 i 3.8 i 6.7 i
5000-6000 6000-7000 7000-8000 6000-8000 9000-10000	1220.50 1214.24 1208.50 1202.30 1195.87	233.01 220.00 210.10	278.00 283.06 248.70 232.20 218.20	294.53 289.19 288.38 256.06 243.90	208.38 275.83 263.88	1-206.21 1-229.46 1-243.36 1-223.26 1-169.97	-89.59 -81.25 -70.05 -73.30 -80.02	-40.10 - -37.50 - -33.33 -	16.75 18.75 16.99 16.99	76.61 62.18 52.05 58.80 60.02		7.d; 8.0; 11.0; 11.3;	16.2 (12.9) 13.3 ; 18.1 ; 4.7	10.8 10.3 12.2 11.8
19000-11000 1,000-12000 12000-13000 13000-14000 14009-15000	1184.30 1178.02 1171.80	187.40 180.90 174.30	207,80 197,90 189,10 180,70 173,40	232.90 220.90 210.30 199.80 189.70	229.40 218.38 209.10	;-109.97 ;-160.86 ;-149.31 ;-123.33 ;-113.20	-80.02 -80.00 -43.36 -39.97 -33.33	-23.44 - -23.30 - -20.08 -	16.66 16.66 16.66 16.66	53,38 50.00 59.84 39.97 33.33	11	8.3 8.2 4.6 4.8 5.)	10.6 8.5 8.7 6.4 3.9	15.1 10.8 11.4 8.2 7.8
15000 18000 18000-17000 17000-19000 18000-19000 19000-20000	1188.80 1180.47 1144.91	157.60 152.30 146.80	167.20 161.80 158.60 150.40 148.00	186.50 171.02 183.20 158.00 149.50	163.07 174.33 166.79	1 ~93,33 1 ~76.80 1 ~57,99 1 ~46.01 1 ~45.52	-29.95 -29.01 -23.99 -21.95 -22.03	-17.98 - -17.98 - -18.01 -	18.88 13.98 13.98 12.03	13.28 11.41 -1.95 8.05 -3.98	11	1.8 ! 0.5 ! 0.8 : 0.0 !	3.9 : 2.8 : 0.9 : 0.7 : 0.2 :	4.1 2.5 4.1 1.8
2000-21000 21000-22000 22000-23000 23000-24000 24000-25000	130.82 1128.22 1121.47	132.90 128.70 124.00	140.20 138.60 131.20 128.60 122.30	144.30 139.30 134.60 129.60 120.12	145.08 139.78 134.50	: -28.02 : -29.04 ! -28.01 : -25.93 : -28.01	-18.04 -18.04 -17.96 -18.01 -18.01	-14.08 - -13.98 - -13.98 -	13.98 13.98 12.03 11.98	-3.98 -1.97 -3.98 -8.02 -3.98	11	0.0 ! 0.0 ! 0.0 !	0.0 1	1.0 t 1.3 (1.6 t
25000-26000 26000-27000 27000-28000 28000-28000 29000-30000	:100.84 :104.08 :100.32	112.30 108.20 104.60	116.20 114.30 110.30 106.40 103.00	120.80 118.60 112.50 108.30 104.70	119.10 114.70 110.10	1 ~22.03 1 ~18.04 1 -17.96 1 ~17.96 1 ~16.01	-16.01 -14.06 -13.98 -13.98 -12.03	-12.03 - -12.03 - -11.95 -	11.98 11.98 10.00 10.00	-10.00 -7.97 -10.00 -8.05 -10.00	11	0.0 :	0.0 1	0.0 : 0.9 : 0.4 : 0.2 : 0.2 :
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	89.81 85.60 82.57	98.00 94.80 91.10 87.90 85.60	99.60 96.30 92.60 89.30 66.60	101.20 97.90 94.50 90.80 87.80	99.00 95.40 91.43	1 -18.03 1 -18.04 2 -20.00 1 -20.00 1 -16.01	-12.03 -12.03 -12.03 -12.03 -10.00	~10.00 - -10.00 -	10.00 10.00 10.00 10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 I 0.0 I 0.0 I 0.0 I

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HOT FT MSL	1%	N PERCEN	TILES 50%	90X	99%	1%	DND. 10%	H PERCEN	TILES 60%	59%	1 ;	PERCENT DUCT :	OCCURR SRLR :	SUB :
500-1000 :2	80.88	337.06 3	81.25	384.06 375.36 365.69	385.69	-198.20 -170.81	-85.41	-56.25 -56.33	27.08 -31.25	118.69	11	8.4 1 5.1	20.4 : 7.0 !	28.4 1
1500-2000 12 2000-2500 12	53.20 49.09	319.37 3 310.73 3	43.88 35.00	386.19 347.00	365.50 356.19	1-172.91 1-204.18 1-193.93	-81.25 -79.16 -81.25	-56,25 -56,25 -54,16	-31.28 -33.33 -33.33	-2.10 4.17 10.42	::	2.3 3.6 4.6	8.0 8.1 7.3	1.4 : 1.9 : 1.7 :
3000-3500 12	40.90	292.69 3	25.06 15.38 06.81	337.38 327.89 319.38	336.00	1-235.48	-93.75 -93.75 -93.33	-52.08 -50.00 -50.00	-29.18 -27.08 -22.91	22.91 44.08 43.89	;;	6.9 : 6.1 : 8.0 ;	10.6 : 10.0 : 7.7 :	3.6 : 3.9 : 4.9 :
			99.19 91.88	311.69 304.75		1-204.16	-81.25 -87.50	-45.83 -45.83	-18.75 -18.46	58.33 63.48	1:	4.0 i 7.0 i	8.3 ' 12.3	7.7 : 9.6 :
8000-7000 12 7000-8000 2	117.30	230.80 2 218.60 2	78.75 63.25 48.90 32.20	294.19 279.88 287.38 254.98	287.19 274.88	1-239.42 1-225.74 1-269.87 1-238.31	~95.83 ~83.33 ~80.08 ~73.30	-43.75 -41.66 -37.50 -33.33	-16.66 -16.66 -13.41	50.00 50.00 43.35 53.25	11	11.6 : 8.6 : 12.1 : 12.4 :	16.5 : 14.4 : 13.1 : 15.3 :	10.3 10.4 5.6 10.3
1000-1000 :1		200.80 2	17,30	242.90	250.50	1-228.32	-68.66 -60.02	-29.95	-13.41	88.31	11	8.7 :	10.4	11.1 (
11000-12000 1 12000-13000 1	.94.20 .78.20 .71.90	188.70 1 180.30 1 173.80 1	95.80 95.80 86.70 78.00 72.10	220.00 209.30 199.40 189.40	228.90 218.20 207.70	1-139.97 1-148.88 1-108.77	-50.00 -43.36 -30.71 -33.33	-23.30 -20.08 -20.08 -20.08	-16.66 -16.66 -16.66 -16.66	39.97 26.56 20.05 13.28	1 1	4.9 ! 8.0 : 2.6 : 2.3 !	7.0 : 7.6 : 5.1 : 4.1 :	8.4 1 8.6 1 8.6 1 4.9 1
17000-18000 :1	.55.60 .50.70 .45.20	157.30 1 152.10 1 146.60 1	88.20 80.90 55.10 49.70	179.29 170.40 162.00 156.50 149.30	182.20 174.00 185.81	; -93,19 -87,93 : -54,08 : -60,00 : -38,01	-30,07 -26,69 -23,98 -22,03 -20,00	-19.92 -17.96 -16.01 -16.01 -16.01	-16.66 -15.04 -13.98 -12.03 -13.96	6.64 0.00 7.97 12.28 -2.00	11	1.4 (0.6 (0.1 (0.3 (3.1 : 1.1 : 0.7 : 1.4 : 0.1 :	3.9 1 2.7 ; 3.7 ; 6.0 1 2.2 (
22000-23000 1 23000-24000 1 24000-25000 1	.31.50 (27.30 (22.70 (18.50	132.00 1 128.60 1 123.90 1	39,80 35,20 30,90 26,50 22,10	144.10 139.00 134.40 129.70 125.00	151.30 145.40 139.60 134.18 129.00	-40.00 -32.03 -28.01 -23.63 -27.88	-18.04 -18.04 -17.98 -18.01 -18.01	-15.94 -13.96 -13.96 -13.98 -13.98	-12.03 -12.03 -11.95 -11.95 -11.95	0.00 -2.87 -3.98 -3.98 -2.02	11	0.1 : 0.0 : 0.0 : 0.0 : 0.1 ;	0.0 t 0.4 : 0.0 t 0.1 :	2.7 1.2 1.4 1.3 1.8
27690-28000 . 1	114.70 110.80 106.50	112.30 1 108.20 1 104.60 1	16.10 14.20 10.20 06.30 02.90	120.80 118.80 112.30 108.10 104.80	123.40 110.70 114.40 100.70	-21.95 -20.00 -17.86 -18.01 -18.01	-16.01 -14.06 -13.98 -13.99 -12.03	-12.03 -12.03 -12.03 -11.95 -11.95	-11.98 -11.93 -10.00 -10.00 -10.00	-7.87 -0.08 -10.00 -10.00 -10.00	:::	0.0 ! 0.0 ! 0.0 ! 0.0 !	0.0:	0.8 t 0.0 t 0.2 t 0.0 t
30000-31000 31000-32000 3200-33000 33000-34000 34000-33000	98.21 92.99 89.40 98.30 94.08	94.70 91.61 87.80	99.60 96.30 92.70 69.20 86.70	101.20 97.90 94.40 99.70 97.70	102.20 98.90 95.37 91.30 88.30	-17.96 -18.04 1-20.00 -20.00	-12.63 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -9.05	-7.97 -7.97 -7.97 -7.97 -7.97	: t : t : t : t	0.0:	0.0:	0.2 1 0.0 : 0.0 : 0.0 :

1200Z FIGURE B-7-3-C B-115

THICKNESS STATISTICS

BASE	:		DUCT	S RCENT I	.ES :		SRLI THK PI	R8 ERCENTIL	ES	ı		NORM THK PI	AL ERCENTI	LES I		SUB THK PE	RCENTIL	E9
FT MSL	:	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	1	%FRQ	10%	50%	90% :	XFRQ	10%	50%	90%
SFC-500	1	14.9	82	279	476 ;	28.4	98	377	574	i -	96.3	1083	5512	34877	14.0	180	279	476
500-1000	:	1.1	492	787	1181 :	0.5	98	1083	1280	:	5.5	315	7382	34522	0.9	99	78	489
1000-1500	:	2.7	197	394	807 :	4.3	98	492	1102	1	1.8	1014	2756	31596 1	0.7	295	344	787
1500-2000	1	3.7	197	394	591	6.9	98	394	1083	1	7.3	98	2650	9744	2.0	138	489	1437
2000-2500	;	3.2	187	295	400 :	5.3	98	295	1083	1	6.4	856	3937	15679 1	1.4	394	797	2756
2500-3000	;	4.4	98	394	591 :	6.2	98	394	725	:	8.9	512	3051	10059 1	0.9	295	492	1476
3000-3500	:	2.8	266	443	817 :	3.6	98	197	489	:	7.3	709	2650	6989 :	1.1	78	443	784
3500-4000	:	1.8	197	394	758 :	3.0	98	492	905	1	5.3	295	3150	31392	1.8	118	640	1181
4000-4500	;	2.8	98	394	591 :	3.7	98	295	748	ı	5.5	98	5512	30939 1	2.1	70	492	1083
4500~5000	:	3.5	98	295	482	8.0	98	295	728	:	8.3	98	2654	30349	4.1	295	591	1476
5000-6000	1	5.9	98	295	492 :	11.5	78	295	689	+ -	17.7	98	2412	29857	5.9	98	394	1201
6000-7000	:	8.0	98	295	492	11.2	98	295	591	ı	14.7	96	3051	28774 1	6.9	98	492	984
7000-8000	1	9.4	98	295	453 (11.2	98	197	591	1	17.9	98	3248	27800 1	6.4	98	492	1191
8000-9000	ŧ	10.1	98	295	492 :	12.2	98	197	591	:	18.1	98	3248	26707 1	7.0	98	394	1280
9000-10000	1	5.0	98	295	394	7.6	98	197	413	ŧ	13.8	98	2215	25919	8.5	99	541	984
10000-11000	;	7.8	98	197	344 ;	9.4	98	148	394	+	21.1	197	2953	24935 1	8.5	99	394	1083
11000-12000	:	4.8	98	197	394 :	7.3	98	197	394	ı	14.4	98	2854	23951	8.2	98	492	1191
12000-13000	:	4.6	98	197	295 :	7.3	98	197	394	:	13.5	98	3051	22770 :	6.6	99	492	1073
13000-14000	3	2.5	98	197	295 1	5.7	99	197	295	ı	11.0	98	2789	21805 1	5.2	197	492	1063
14000-15000	1	3.0	98	98	295	3.4	98	98	246	ŧ.	8.4	98	4166	20644	5.2	98	394	1063
15000-16000	:	1.8	98	148	197 :	3.7	98	98	266	- -	6.9	98	19029	19817	3.2	99	361	1089
16000-17000	1	0.2	164	164	164 ;	2.7	118	164	258	:	4.1	164	19209	18727 (2.3	164	454	1083
17000-18000	;	0.5	164	164	164 :	0.7	164	164	164	:	3.7	262	17471	17717 :	1.1	164	329	994
18000-19000	1	0.0			:	0.7	164	164	164	;	4.3	984	15912	16486 :	3.9	144	492	820
19000-20000	:	0.2	164	164	164	0.2	164	164	164		1.6	295	15256	15420	1.3	164	328	492

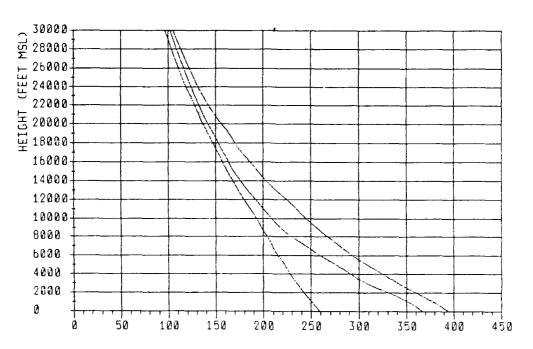
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BASE			DUCT	S RCENTIL	ES :		BRLA THK PE	RS RCENTII	F9 :		NORM THK P	AL ERCENT I	LES	1	BUB THK PE	RCENTI	.F8
FT MSL	i	%FR0	10%	50%	90%	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	1 XFRQ	10%	50%	90%
BFC-500	+ -	6.4	92	279	426 :	20.4	78	377	610	96.6	574	5003	34877	25.4	180	377	476
500-1000	:	1.3	197	394	591 :	3.4	98	197	1230 ;	7.1	1486	4085	9499	. 0.3	99	98	394
1000-1500	:	1.6	138	591	1043 :	2.9	98	492	1368	2.7	591	3150	33892	1.1	98	394	3347
1500-2000	:	2.3	167	344	620 :	3.4	98	541	1181	3.9	99	2953	33420	1 1.0	295	797	1093
2000-2500		3.0	98	295	571 :	3.9	98	394	1181	4.9	148	3740	32907	1 0.9	99	984	1378
2500~3000	:	4.4	197	295	689 :	7.0	98	492	984	7.0	98	2362	8671	: 2.3	177	492	1201
3000-3500	:	3.9	276	295	689 :	4.9	98	197	1063	6.9	98	2165	6851	1.9	98	837	1575
3500-4000	;	3.6	98	295	630	4.3	98	295	768	7.4	98	1673	19637	1 2.7	79	492	1280
4000-4500	t	2.7	98	295	591	5.1	98	295	689	7.7	98	1083	4872	1 4.4	139	492	946
4500-5000	†	6.4	98	295	531	10.1	98	295	787	10.1	197	2510	30319	4.9	148	394	984
5000-6000	1	7.8	98	295	492 :	13.6	98	295	787	22.4	98	3199	29827	7.4	98	394	1378
5000 -700 0		7.3	98	295	492 :	11.4	98	197	689	17.5	98	3543	29577	1 7.3	78	492	1457
7000-8000	1	10.8	98	295	492 :	11.0	98	197	492 :	18.3	197	3051	27691	1 5.7	98	541	1484
9000-9000	:	9.7	98	246	394 :	13.4	98	197	492	19.7	98	3347	26805	7.1	99	54:	1575
7000-10000	:	7.3	98	295	394	9.0	98	197	394	15.0	96	3445	25821	6.1	157	394	92
0000-11000	;	5.4	98	197	394 :	7.0	98	197	492	17.5	78	2953	24876	6.8	90	394	1142
000-12000		4.0	98	148	305 :	6.4	98	197	295	11.6	98	3051	23852	1 5.9	98	492	1083
2000-13000	:	4.9	98	197	246 :	7.1	98	197	394 :	12.3	98	9908	22770	4.9	98	295	116
3000-14000	;	2.0	98	148	295 .	4.7	99	197	295 -	7.9	492	9088	21894	3.7	98	394	118
1000-13000	:	2.1	65	98	335	3.4	98	197	325	6.7	98	20014	20703	3.1	99	394	1201
8000-14000	;	1.4	98	98	295 :	3.0	98	197	295	5.3	98	19128	19817	2.6	98	394	787
000-17000		·J. 6	164	164	164 :	1.0	131	164	328	3.7	105	4101	10832	1 - 6	141	525	1099
7000-19000	;	0.1	164	164	164 .	0.7	164	164	328	2.1	279	4921	17717		164	492	1050
0000-19000		0.3	164	164	164 :	1.3	164	164	328	5.6	164	15912	16733		164	328	820
7000-20000		0.0				0.1	164	164	164	2.2	2638	15256	15748	1.2	164	328	656

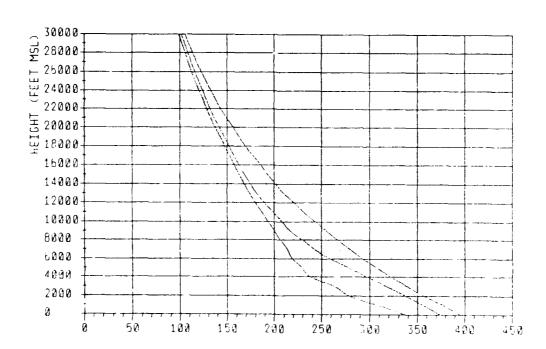
1200Z

FIGURE B-7-3-D B-116

N PERCENTILES



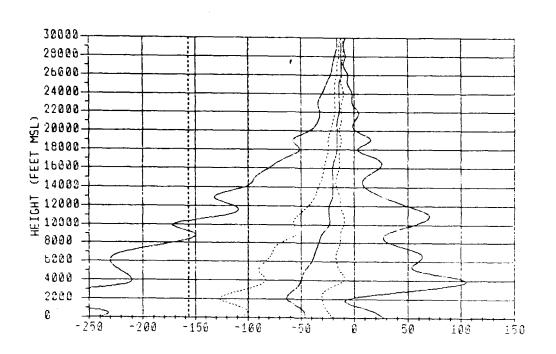
N (N-Units) 0000Z



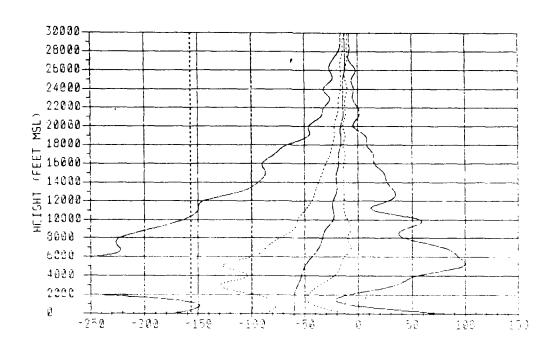
N (N-Units) 1200Z

FIGURE B-7-4-A B-117

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-7-4-B B-118

BELIZE

DRY-WET TRANSITION

\$0.0-1000 1284.96 344.25 387.36 376.70 388.86 1-181.00 -78.16 -43.78 -20.83 12.80 11 1.6 3.2 2.8 1000-1200 1284.08 334.22 387.36 370.77 381.30 -208.12 -88.86 -88.3 -22.31 17.36 11 4.3 8.0 4.0 1200-2200 1244.76 324.72 348.00 362.50 372.22 -780.16 -114.56 -72.06 -4.06 11 10.8 11.0 1 18.0 2.2 2000-3000 1244.80 312.37 337.72 331.26 381.41 -414.66 -133.33 -48.66 -136.66 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06 -12.06	HOT FT MSL	1%	W PERO 10%	ENTILES SON	90%	55%	1%	DND:	E PERCEN	TILES DOR	90X	11	PERCENT DUCT :	OCCURS BRLR	
1000-1000 1246.06 354.02 387.18 370.87 381.30 -208.12 -38.56 -48.58 -22.81 17.86 11 4.3 8.0 1 4.0 1000-1000 1246.78 324.72 346.00 522.50 372.22 -380.16 -114.56 -114.56 -13.27 -20.0 -2.8 11.14 1 1 1 1 1 1 1 1 1															12.6
1900-2000 124.98 312.37 337.72 382.80 \$72.22 -380.16 - 114.08 - 04.18 - 27.08															
2000-2000 1244.98 312.77 377.2 392.68 361.41 -416.69 -137.35 - 44.58 -51.26 -8.28 11.41 18.8 2.2 2000-2000 1240.78 288.28 324.18 341.77 381.88 -544.26 - 126.67 - 42.80 - 28.24 16.8 11.18 18.8 3.2 2000-2000 128.60 228.60 228.60 213.24 272.88 302.88 324.83 31.80 -282.04 - 88.58 - 82.08 - 20.85 86.8 18.8 18.6 18.6 4.3 11.8 18.8 4.3 4.00 4.00 228.00 228.00 244.75 224.50 312.86 328.41 312.86 328.41 312.86 328.41 312.86 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.41 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.50 328.															
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\$100-4000															
## ## ## ## ## ## ## ## ## ## ## ## ##	3000-3800	1238.80	280.87	311.88	329.81	341.68	:-251.74	-106.25	-58.25	-26.69	62.50	1 1	0.3	11.5	
STOOL-BOOD 1221.98 244.00 274.56 283.98 307.75 1-231.62 -88.88 -43.76 -14.86 70.84 1 10.4 10.1 12.8 1000-7000 1218.07 231.81 284.00 278.98 292.71 1-217.27 77.08 -39.88 -14.86 70.96 1 80.0 12.8 12.8 10.0 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 10.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 1															• •
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1000-1000 1209-27 219-81 243-70 248-78 241-02 1-223-50 -78-89 -18-88 64-38 1 10.1 12-8 11-8 8000-8000 1203-18 208-88 228-80 253-70 248-81 1-201.89 -88-82 -33-33 -31-3.41 33-33 1 7.2 14-4 8-7 8000-10000 187-24 201.80 218-80 242-80 283-88 1-143-38 -88-84 -28-89 -8-90 33-33 1 3.2 7-8 14-4 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8															
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30000-31000 : 95.12	29000-30000	1 98.40	100.90	102.70	104.70	106.30	: -18.01	-12.03	-11.95	-10.00	-8.05	11	0.0	0.0	
32000-33000 98.83	30000-31000	: 95.12	97.80	99.40	101.10	102.40	-18.01	-12.03	-10.00	-10.00	-7.97	11	0.0	0.0	-
33000-34000 : 88.88															

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нот	1	N PERCENTILES			!		PERCENTILES		11	PERCENT		
FT MSL	: 1%	10% 50%	90%	55%	1%	10%	80% 80	x 99x	11	DUCT	SRLR :	809
SFC-500	:345.16	366.37 380.00	390.07	398 84	1-244.64	-110 41	-86.25 35.	00 132.80	11	8.8 1	21.3	33.4
500-1000	1332.44	357.19 370.75	381.82		1-127.08		-62.50 -41.		- 11	1.0	3.0	
1000-1500	1321.74	349.32 361.56	371.92		1-139.95		-80.41 -41.		ii	1.0	3.6	
1900-2000	1307.97	339.19 352.69	362.38		1-174.48		-60.41 -48.		11	3.6	4.8	
2000-2500	: 288.31	330.00 343.25	362.78		1-207.25		-60.41 -47.		- 11	8.2 1	7.8	
2500-3000	:279.72	315.50 332.38	342.75		-307.24	-106.25	-58.33 -43.		1.1	9.5	13.8	
3000-3500	1273.09	299.54 321.50	332.19	341.28	-433.79	-127.08	-56.28 -37.		1:	12.1	13.1	
3500-4000	1250.69	283.75 311.75	323.64	332.63	1-379,21	-126.01	-54.16 -31.	25 39.58	1.1	12.5	13.4 :	5.6 t
4000-4500	1242.00	271.97 301.69	315.50		1-278.02		-82.08 -22.	81 47.78	1.1	8.5	12.8 1	8.5 1
4500-5000	:237.00	263.56 292.22	107.50	310.14	1-330.67	~117.71	-50.00 -18.	88 80.82	11	13.1 1	19.0	13.4
5000-6000	1228.13	242.50 279.50	296.50	307.07	1-312.50	-123.30	-80.00 -18.	66 93.75	11	21.2	26.0	14.1
6000-7000	1218.87	228.60 257.58	280.08		1-248.87		-41.66 -12.		4.1	12.4	16.7 1	14.4
7000-8000	1213.40	218.30 242.00	266.88		:-223.10		-38.71 -9.		1.1	9.0 1	16.3 1	14.4
8000-9000	1205.60	209.40 227.80	284.10		1-224.12		-33.33 -10.		1:	9.8 1	17.0 i	9.0 1
9000-10000	1198.70	201.20 214.60	240.60	282.48	:-17 0.69	-58.64	-29.65 -9.	90 44.95	4 4	8.6 1	7.2 (10.2
10000-11700		194.20 208.20	229.10		-161.68	-88.64	-23.44 -13.	29 51.59	11	5.6 (7.8 :	11.5
11000-12000		197.20 198.30	218.50		1-140,17		-23.30 -13.		1.1	4.6	8.9	7.9
12000-13000		160.60 167.20	207.50		1-130.01		-20.08 -13.		: 1	2.8 1	5. 6 I	
13000-14000		174.10 180.00	198.00		1-108.14		-20.08 -13.		1.1	2.6 1	4.6	8.2 1
14000-15000	166.50	188.20 172.85	188.89	198.80	1 -84.99	-36.59	-20.08 -13.	41 16.66	11	2.0 :	3.0 I	5.9
15000-16000	:161.10	162.70 166.70	180.89	190.10	-93.16	-33.33	-19.92 -13.	28 26.63	11	1.6 1	3.6	6.9
16000-17000	1188.80	157.40 161.20	172.40		-89.24		-17.96 -13.		- i i	0.3	1.0	7.8 1
17000-18000	:150.70	152.01 155.60	186.58	174.44	1 -70.14	-24.06	-16.01 -12.	03 6.02	3.1	0.3 1	1.0 1	8.2
18000-18000		148.80 180.10	150.59	166.60	-61.95	-23.98	-18.01 -11.	95 9.39	1.1	1.0 /	1.0 (4.8 1
19000-20000	1140.40	141.70 144.70	182.00	159.20	1 -46.01	-22.03	-18.01 -13.	98 1.95	- 11	9.0 1	0.0 1	3.3
20000-21000	:135.60	137,10 139.90	145.90	153.40	-41.98	-21.95	-18.01 -12.	03 -3.98	-++	0.0 1	0.0 1	1.7
21000-22000		132.46 138.30	140.10		-38.01		-14.06 -12.		1 ;	0.0	0.3	3.7
22000-23000		129.35 131.00	138.25		-30.10		-13.00 -11.		- 11	0.0	0.0	
23000-24000		123.70 126.40	130.50		-27.96		-13.99 -11.		- 11	0.0	0.0	
24000-25000	1118.07	119.50 121.90	125.65	130.22	-28.53		-13.99 -11.		11	0.0	0.3	1.4
25000-26000	1114 19	118.70 117.90	121.40	128.10	: -22.98	-16.01	-13.90 -11.	95 -3.98	-++	0.0 !	0.0 1	0.7:
26000-27000		111.90 114.00	117.10		-28.97		-12.03 -11.		1:	0.0 :	0.0	
27003-20000		107.80 110.00	112.70		1 -20.00		-12.03 -10.		- 11	0.0	0.0	0.4
26000-29000		104.20 108.10	108.30		-17.09		-11.98 -10.		ii	0.0	0.0	0.4
29000-30000		100.60 102.60	104.00		-18.01		-11.98 -10.		- 11	0.0 i	0.0	0.4
30000-31000	: 98.40	97.60 99.30	101.00	102 80	: -14.06	-12.03	-10.00 -10.	00 -6.02	++	0.0 1	0.0	0.4
31000-32000		94.49 98.00	97.80		-19.01		-10.00 -10. -10.00 -10.		11	0.4	0.0	0.7
32000-33000		90.90 92.50	94.20		-16.01		-10.00 -10. -10.00 -10.		11	0.0	0.0	0.0
33000-34000		87.80 89.10	90.60		1 -22.00		-10.00 -10.		- 11	0.0	0.0	0.0
34000-35000		85.60 86.55	87.50		-23.98		-10.00 -8.		11	0.0	0.0	0.0

1200Z FIGURE B-7-4-C B-119

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE	ı		DUCT	B RCENTII	_E8 :		SRLA THK PE	RCENTIL	.ES	ı		NORM THK P	AL ERCENT I	LEB	ı		SUB THK PE	RCENTI	LES
FT MBL	;	%FR@	10%	50%	90%	XFRC	10%	50%	90%	* 21	FRQ	10%	50%	90%	1	XFRO	10%	50%	90%
9FC-500		21.7	82	238	377 ;	35.4	98	279	377	9	7.5	984	2641	28666	1	12.6	148	279	797
500-1000	1	1.1	98	197	295 :	1.4	98	837	1280	: :	2.5	98	3986	34483	1	0.7	98	443	787
1000-1500	:	3.6	197	492	1043 :	7.2	118	689	1171	:	3.6	98	2805	27386	:	2.2	98	98	492
1500-2000	:	7.9	157	394	689 :	11.2	98	492	866		9.0	157	4232	19285	1	1.4	98	99	984
2000-2500	1	8.7	148	295	689 :	10.5	98	492	1181	1 1	6.6	197	4330	8344	1	1.4	99	246	1290
2500-3000		7.6	197	492	886 :	11.6	98	295	1142	1	3.7	78	2362	32574	1	2.2	394	1474	4923
3000-3500	:	4.0	217	295	669 :	4.0	98	98	925		9.0	394	3642	31963	ı	2.9	98	739	1476
3500-4000	:	2.2	197	394	689 :	5.4	98	344	915		9.7	98	1280	9337	1	3.2	98	492	1260
4000-4500	1	2.5	98	394	787 :	4.3	98	492	1152		8.3	98	864	31057	1	6.1	108	492	1053
4500-5000	÷	9.0	197	295	591	6.5	98	197	423	1	3.1	394	3002	30250	1	4.0	118	295	1634
5000-6000		7.9	98	246	591	11.2	98	295	817	16	6.2	98	2264	29719	1	7.9	98	492	1063
6000-7000	1	6.1	197	295	492 :	9.0	98	197	689	1.	7.7	98	4970	28764	1	7.6	92	492	1555
7000-B000	1	7.9	197	295	591	11.6	98	197	492	17	7.7	98	4134	27988	1	4.9	92	541	1171
8000-9000	:	5.8	98	197	394 :	10.5	98	295	492	1:	5.5	98	3543	26905	1	5.1	98	492	1181
9000-10000	:	2.5	98	197	492	6.1	98	197	394	1.1	1.6	99	5750	25821	1	9.7	98	295	907
10000-11000		5. 1	98	295	394	7.9	98	98	443	18	B. O	96	3445	24935	+	8.3	98	492	1931
11000-12000	;	1.4	98	148	295 :	4.0	98	197	295	10	0.5	98	4380	23921		8.0	146	394	787
12000-13000	;	2.9	98	197	295	4.0	98	197	394		7.1	98	2953	22553	1	4.7	98	492	1329
13000-14000	- 1	2.9	98	197	394 :	6.5	98	197	305		9.8	98	5380	21687	1	3.3	98	591	1063
14000-15000	:	1.8	98	197	295	4.0	98	98	266		7.2	98	8465	20575	1	3.6	98	394	946
15000-16000		0.7	98	98	98 :	1.5	98	246	295		5. B	320	4281	19846	1	3.6	118	492	1352
16000-17000	:	0.4	131	131	131 :	2.2	98	164	164		5.8	551	3281	18406	ι	2.9	295	492	1312
17000-18000	1	0.0			1	0.7	164	246	328		3.3	994	17061	17717	ı	2.2	164	328	820
19000-19000	1	9.7	164	164	164 :	0.7	164	154	164	. 4	4.4	919	15912	16897	1	5.5	164	328	820
19000-20000	:	0.4	164	164	164	0.4	164	164	164		5. 1	3527	15256	15466	t	2.9	164	492	820

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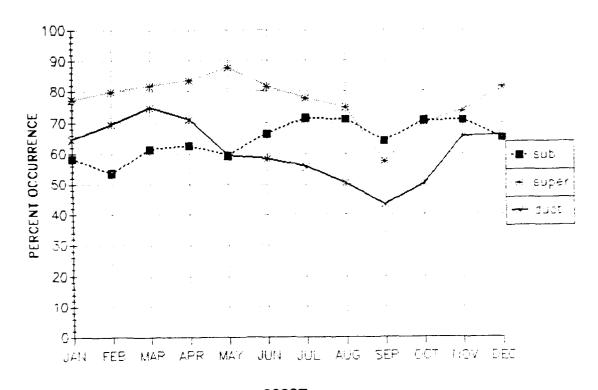
BASE : FT MSL :	:	%FRQ	DUCT THK PE	S RCENTIL SO%	.E9 :	%FRQ	SRLE THK PE 10%	RCENTII	- €8 90%	;	%FRQ	NORM THK PI 10%	AL ERCENTI 50%	90%	!	%FR@	SUB THK PE 10%	RCENTII	90%
	•-									+-					+- .		279	279	377
SFC-500 :	:	8.9	97	190	605	21.3	98	279	476	•	98.0	171 4 9 9	4183 1624	11466 34670		33.4	197	197	197
500-1000		0.3	787	787	787 :	0.7	98	344	591		3.0			34089	i		492	591	391
1000-1500		0.0				2.3	98	591	886	1	2.0	394	2826			1.0	772	241	341
1500-2000	:	2.3	98	492	768	3.0	98	492	1101		2.3	98	2608	33597		0.0			3.4-
2000-2500		3.0	98	394	489	5.2	98	541	1378		3.3	98	2854	12372	i	0.7	98	197	2165
2500 -3000 :	:	7.2	128	344	689	9.2	98	443	1093	:	6.9	98	2165	28354	:	1.6	197	591	2165
3000+3500		8.2	197	394	767	7.2	98	295	1142	•	9.2	197	2116	16293		2.3	98	394	1476
3500-4000	:	5.9	197	443	699	8.5	98	246	915	;	10.2	128	2067	31294	;	3.6	138	686	1634
4000-4560 .	•	4.9	157	354	689	7.2	98	394	640	:	11.1	98	738	8159	1	4.6	98	591	2067
4500-5000	:	10.5	128	394	659	13.7	98	295	886	-	14.7	98	1181	22854	<u>:</u>	6.5	207	394	1083
5000-6000	:	13.4	197	394	291	19.3	98	197	689	-	31.7	98	4626	2973B	1	8.2	256	591	1850
6000-7000		10.5	98	344	391	13.4	98	295	600		20.9	98	4724	28715	1	9.5	197	640	1673
7000-8000		9.2	98	295	404	12.4	98	295	591	;	21.6	197	3347	27976	1	7.5	99	394	1358
8000-9000		8.9	98	295	394	14.4	98	98	492		20.7	98	3642	26 904	i	6.6	98	394	1358
9000-10000		4.3	98	197	354	6.2	98	197	295	;	12.5	98	7283	23890	:	7.2	98	492	1083
10000-11000		5.2	98	197	394	7.5	98	197	423	+ -	15.7	293	5561	2493	*	6.6	118	443	1083
11000-12000		4.3	98	197	295	5.6	98	246	404		11.1	96	4741	23852	i	5.2	98	394	1476
12000-13000		2.3	98	197	295	4.6	98	197	295		6.5	98	4462	22474		5.2	167	492	1309
13000-14000		2. 3	98	197	295	4.3	98	96	453	Ċ	9.8	98	3921	21795	÷	5.2	99	591	1083
14000-15000		1.6	98	98	197	2.6	98	148	394		4.9	99	8694	20703		3.3	129	689	1437
14000-15000	•		78 							·-					÷				
15000-16000		1.6	98	148	197	3.6	98	98	266		7.5	98	8317	19669	;	4.6	98	394	958
16000-17000 .		0.3	164	164	164	1.3	98	164	328	1	5.9	820	9514	18825	:	5.9	164	492	837
17000-18000		0.3	164	164	164	1.3	164	164	164	;	5.2	689	17061	17881	4	2.6	164	492	1148
18000-17000		1.0	164	164	164 :	1.0	164	164	164	1	6.2	361	15912	16569	1	3.9	164	492	820
19000-20000		0.0	_	_		0.0			-		3.0	1640	15256	15748	,	3.0	164	328	492

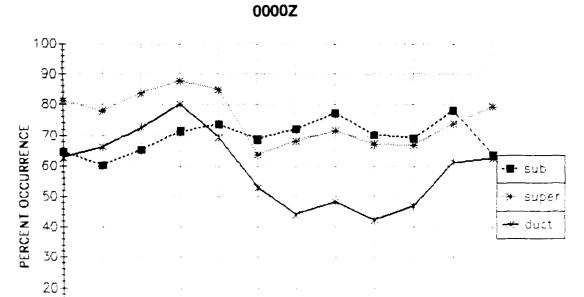
1200Z

FIGURE B-7-4-D

B-120

AP PERCENT OCCURRENCE FREQUENCY





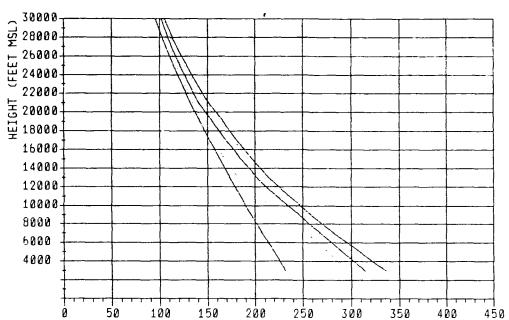
1200Z FIGURE B-7-5 B-121

MAY JUN JUL AUG SEP OCT NOV DEC

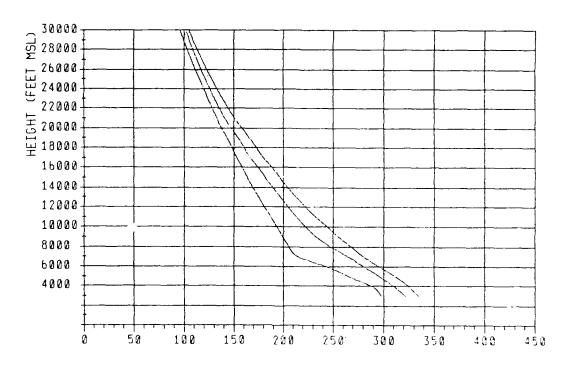
10‡

TEGUCIGALPA WET SEASON

N PERCENTILES



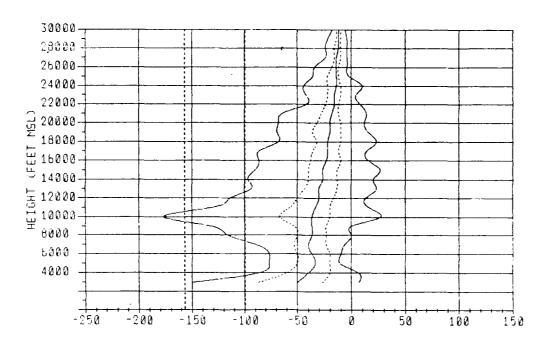
N (N-Units) 0000Z



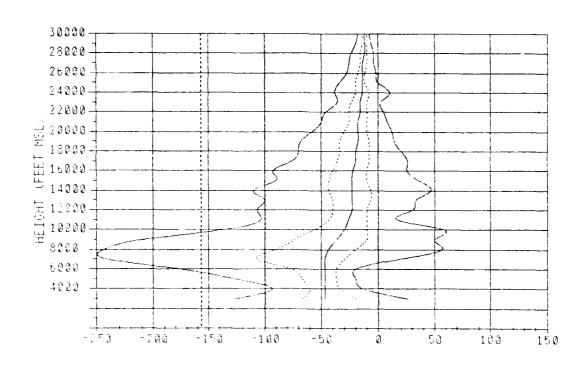
N (N-Units) 1200Z

FIGURE B-8-1-A B-122 TEGUCIGALPA WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-8-1-B B-123

WET SEASON

TEGUCIGALPA

- NGT PT NSL	1 13	N PERCENTI	LES Or 90%	993 13	DEDN PERCENTILES	998		POCURSENCE I
SPC-2500 2500-4000	1233.97	302.19 318 294.50 211		339. 25 1-166. 66 230. 37 1-120. 83	-93.75 -32.06 -26.30 -73.00 -45.63 -23.44			6.1 1.4 4.1 1.9
4000 - 4300 4300 - 5000	1227.56 1224.78	288.56 303		321.76 -87.50 316.37 -83.33	-60, 41 -39, 56 -20, 80 -56, 25 -39, 56 -20, 80	6.30 i	i 0.2 i	6.5 1.4 6.5 2.5
3000-6000 6000-7006	1219.36	274.56 290 264.50 276	. 06 301. 06 . 88 288. 37	366.01 i -75.00 294.36 i -61.25	-50.00 -33.33 -20.65 -50.00 -35.41 -20.65			0,4 0,9 0,8 0,9
7900-8000 8000-9000 9000-18000	1207.04	253. 96 257 246. 96 255 227. 96 244	. 70 254. 06	261.50 : -86.81 259.86 :-116.66 256.86 :-143.35	-52.66 -39.56 -22.9: -50.66 -37.56 -23.36 -53.25 -36.59 -20.63	9.99 i	1.6	1.6 1.4 4.1 3.5 6.3 4.8
10000-11000	1188.89	212.50 232 200.00 219		245.40 -169.41 223.70 -126.69	-66.66 -36.71 -20.65 -59.26 -22.22 -16.66	28.69	4.6 (6.0 6.2 4.6 6.7
12000-12000 12000-14000 14000-15000	1177. 56	189.10 209 188.10 199 172.67 191	0.00 217.90 0.56 207.90	222.01 -106.65 212.31 -106.64 202.74 -93.26	-46,74 -30,07 -16,64 -43,36 -26,60 -13,24 -39,97 -26,69 -13,24	15.66 16.96	1.4	4.4 5.6 2.2 8.9 2.8 7.3
15000-15000	1161. 20		. 40 190, 90	194.50 -83.33 186.70 -84.96	-36,71 -26,56 -13,26 -36,71 -23,96 -12,60	33.33		2.6 6.4
17000-18000 18000-19000	1150.54	153.90 157 148.10 159	.00 175.04 .60 167.78	178.20 -83.98 171.60 -71.95 162.99 -67.77	-35.99 -22.93 -12.60 -23.96 -26.96 -16.96 -33.94 -28.96 -10.96	18.64 t	0.71	1.9 6.4 0.7 11.1 1.2 7.0
17000-20000 20000-21000	1125.40	147. 90 182 127. 90 145	. 40 152. 70	155.96 -65.99	-20.00 -20.00 -11.95	11.93	0.5	1.2 6.0
21006-22006 22006-23000 23006-24000	1126.46 1126.46 1121.67	123.10 130 128.70 134 123.90 128	. 90 140. 36 . 50 134. 20	149. 50 -57. 98 143. 20 -41. 95 137. 20 -38. 57	-23, 96 -16, 01 -10, 00 -22, 03 -15, 94 -10, 00	3.96	0.01	0.0 1 5.1 1 0.3 1 5.1 1
24000 - 25000 25000 - 26000 26000 - 27000	1116.64 1112.33 1186.32	119.78 123 115.78 118	. 60 122. 00	130.90 -42.03 125.57 -35.93	-22.03 -14.06 -11.55 -29.06 -13.56 -11.55 -17.96 -12.96 -11.55	-1.97 (0,01	0.6 6.3 0.3 2.3 0.3 1.6
27000 - 28000 20000 - 29000	1104.20	111.60 114 107.60 110 104.00 106	. 26 113.30 . 10 100.60	120, 27 -30, 00 115, 50 -23, 90 110, 46 -20, 00	-16.01 -12.03 -10.00 -14.06 -12.03 -10.00	-2. 96 -5. 94	0.0	0.0 i 2.1 i
20000-21000	93.31		. 10 101.00	196. 29 -29. 99 192. 29 -16. 91	-13.90 -11.95 -10.00 -12.03 -11.95 -10.00	-6.92	0, 0 1	0.0 1 0.0 1 0.0 1 0.3 1
31000 - 32000 32000 - 33009 33000 - 34000	1 85.93 1 86.26 1 62.93	90.50 92 67.56 64	.70 97.50 .20 93.60 .90 90.20	94.93 -30.35 94.93 -13.96 91.14 -14.66	-12.03 -10.06 -10.06 -12.03 -10.06 -10.06 -10.00 -10.00 -8.05	-7,97 ! -7,97 !	0.01	0,0 0,0 0,0 0,3 0,0 0,0
34800 - 35000	1 80.50	85. 50 84	. 40 87. 30	88.00 1 -24.06	-10.00 -10.00 -7.97	7 -7.97 1	0.0	0. 0 1 0. 0 1

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HOT		P PERC	F#771_F#			1	DMD	PERCEN'	TILES		II PERCENT	OCCURRENCE
PT HEL	1 1%	10%	30 X	961	991	(11	10%	30%	261	221	DUCT	SRLR SUB
870 - 2506 2500 - 4608 4600 - 4508 4500 - 5000	1298, 93 1201, 22 1294, 53 1265, 25	317.87 311.84 305.19 294.07	225, 36 219, 69 212, 66 266, 66	332. 02 325. 88 318. 88 312. 19	331.75 324.31	-145.06 -100.00 -90.12 -118.73	-72. 91 -62. 50 -56. 23 -62. 50	-45, 83 -45, 83 -45, 83 -45, 83	-12, 50 -23, 26 -31, 25 -33, 33	9. 23 -6. 33	11 0.9 i 11 9.8 i 11 0.5 i 11 1.1 i	2.2 6.3 1.9 4.4 0.6 1.3 4.2 0.9
3000 - 6000 6000 - 7000 7000 - 8000 8000 - 9000 9000 - 10000	1263.87 1248.66 1214.27 1205.48	284.00 262.19 237.50 216.79 204.90	294, 00 279, 86 262, 50 245, 70 231, 40	302.69 287.19 273.50 259.38 245.56	292. 86 279. 25 264. 56	1-127.06 1-218.41 1-245.72 1-236.65 1-186.73	-79.83 -79.16 -193.36 -86.59 -79.65	-47, 91 -45, 82 -45, 83 -48, 18 -36, 59	-37.50 -37.50 -29.95 -16.66 -6.77	-18.31 20.83 30.00	11 0,9 1 11 7,0 1 11 12.0 1 11 9,3 1 11 4,5 1	7.2 6.7 9.9 1.2 19.3 2.9 16.3 9.7 9.4 11.2
10000-11000 11000-12000 12000-12000 12000-14000 14000-15000	1185.78 1179.56	196.96 190.22 184.66 177.50 171.18	221, 36 211, 96 203, 36 195, 36 187, 46	234.26 223.66 214.20 205.70 197.50	230.48 220.30 211.18	(-129.95 (-106.64 (-110.02 (-96.74 (-106.64	-56, 64 -49, 36 -48, 18 -39, 97 -43, 36	-26, 61 -26, 56 -23, 30 -23, 30 -23, 30	-10, 02 -10, 03 -9, 92 -6, 64 -6, 77	20.05 33.23 40.10	11 2.0 ; 11 1.6 ; 11 1.5 ; 11 1.2 ; 11 1.3 ;	7.3 ; 13.1 4.2 6.7 4.0 6.8 3.4 12.1 5.4 12.7
15000-16000 16000-17000 17000-18000 18000-19000	1156.60 1151.50 1145.70	165, 10 159, 60 152, 60 144, 60 142, 90	179.70 172.30 164.90 156.60 151.10	189.60 181.89 173.60 166.28 156.40	194.10 186.20 177.60 170.20 151.90	1 -86.59 1 -86.81 1 -69.59 1 -72.98 1 -54.82	-43, 36 -46, 66 -35, 93 -33, 96 -32, 63	-23, 30 -22, 83 -29, 90 -29, 90 -29, 90	-10, 03 -10, 00 -8, 03 -7, 97 -8, 63	23. 96 25. 52 29. 90	11 0.9 1 11 0.4 1 11 0.1 1 11 1.2 1 11 0.2 1	3.0 (10.7) 2.5 10.3 1.2 10.4 1.6 11.9 0.6 6.4
20000 - 21000 21000 - 22000 22000 - 22000 22000 - 24000 24000 - 25000	1131.78 1127.14 1122.48	138, 18 122, 56 129, 66 124, 26 120, 66	145, 96 139, 26 134, 86 128, 56 123, 78	151, 78 145, 46 129, 56 122, 78 127, 96	184.95 148.50 142.70 126.60 130.60	1 -57.96 1 -50.00 1 -41.99 1 -36.01 1 -36.01	-28.94 -26.91 -24.96 -22.93 -21.95	-17.96 -16.81 -16.81 -15.94 -13.96	-10,00 -10,00 -10,00 -10,00 -10,00	8. 95 2. 96 2. 96	11 0.2 1 11 0.2 1 11 0.3 1 11 0.3 1	0.3 6.4 0.5 5.5 0.2 4.7 0.0 5.8 0.3 6.4
25000 - 25000 25000 - 27000 27000 - 24000 20000 - 27000 27000 - 30000	1109.75 1105.50 1101.13	116.19 112.20 104.00 104.30	119.18 114.98 110.68 106.45 102.86	122.80 118.10 112.50 106.80 104.90	125.30 120.30 115.60 110.50 106.30	1 -30.00 1 -28.04 1 -25.93 1 -21.62 1 -17.96	-18.84 -17.96 -16.61 -14.86 -13.98	-13.96 -13.96 -12.63 -12.63 -11.95	-18.00 -19.00 -19.00 -19.00 -19.00	-2, 96 -3, 96 -3, 94	1	0.0 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
20000-31000 31000-32000 32000-33000 32000-34000 34000-35000	90.20 1 86.60 1 87.19	97, 68 94, 36 90, 86 87, 78 85, 66	99.46 95.90 92.50 89.10 86.50	101, 20 97, 78 94, 10 90, 48 87, 48	102, 56 98, 98 93, 28 91, 30 88, 18	i -16.01 i -31.95 i -13.96 i -23.96 i -25.93	-12.83 -12.83 -12.83 -12.83 -11.95	-11.93 -10.00 -10.00 -10.00 -10.00	-10,00 -10,00 -10,00 -8,00 -7,97	-7. 97 -7. 97 -7. 9 7	1 0,0	0.0 1 0.3 1 0.0 1 0.0 1 0.0 1 0.0 1

1200Z FIGURE B-8-1-C B-124 TEGUCIGALPA WET SEASON

THICKNESS STATISTICS

BASS	1		DUC'	rs Ercentili	-			SAL	.RS Percentii	-			HORN	AL Ercenti				SUB	ERCENTI	
PT MAL	. i	1729	10%	50%	902	i.	XPRO	103	50X	90 %	į	XFRO	18X	593	90X	ì	MPRO	10%	50X	90 X
3070-3500	1	2.4	141	449	639		8. 1	69	364	610	7	93.5	4827	12569	31993	ı	1.4	266	1009	1742
2000-4000		0. 3	96	197	275		0.7	76	98	787	- 1	5. 5	3583	11516	31431		0.7	295	394	1983
4000-4000	•	9. 2	295	295	293		e. 2	5 9 1	591	591	1	1.0	78	7891	31136	,	0. 2	591	591	591
4500-5000	-1-	9.7	197	295	295		0.5	787	1280	1772	1	9. 0	3986	14009	30250	. I	1.4	197	295	295
5000-6000	1	0.4	295	295	295	1	0.0				1	1.6	5887	14875	30152	1	9.9	98	541	689
6000-7000	- 1	8.7	295	295	295	1	0.7	76	295	767	1	1.6	1673	13466	28360	•	0.7	197	295	295
7000-0000	- 1	0. 2	492	492	492	1	1.1	295	591	886	1	1.6	787	4626	27297	ı	1.4	98	591	1943
8000-9000		1.6	76	394	492	1	3. 2	148	344	648	E	5.2	157	5995	26746	F	1.6	197	281	1876
9000-10000	1	3. 6	96	197	423	1	6. 1	94	275	472	1	5. 7	98	1526	25348	ı	4.1	187	295	512
.0000-11000	1	3. 9	187	197	492		6.4	98	197	649	1	15.2	94	5922	24935		5. 9	98	394	1004
1000-12000		2. 8	70	197	394	1	4.4	94	295	472		9.5	94	4626	23715	i	4.6	96	394	1853
2000-13000))	1.4	96	295	394	1	3.7	24	76	394	i	6. 3	472	5216	22671	1	4.2	187	492	1595
3000-14000	1	2. 1	76	197	384	ı.	3. 0	74	197	295	i.	8.7	96	3379	21549		6.1	98	492	886
4000-15000	1	1.2	76	197	197	1	2. 3	76	70	295	1	7.7	197	3576	20112	1	4. 2	98	689	1476
5000-16000	1	0.7	76	78	98		2. 4	76	98	197		5. 6	98	3478	19246	1	4.2	98	648	1024
6000-17000		1.9	131	164	328	1	1.9	76	164	228	1	7.1	623	3673	18471		5. 2	164	492	1148
7000-10000		0.7	164	164	164		1.9	164	164	164	i	7.3	636	5045	17861		4.7	180	656	1476
10000-19000		0.5	164	164	164		9.7	164	164	164	Ĺ	10. 6	509	6224	16569	1	0.7	164	492	820
1 2000 - 20000		8.7	164	164	164		1. 2	164	164	164	í	3. 5	755	6316	15420	i	5. 7	164	492	420

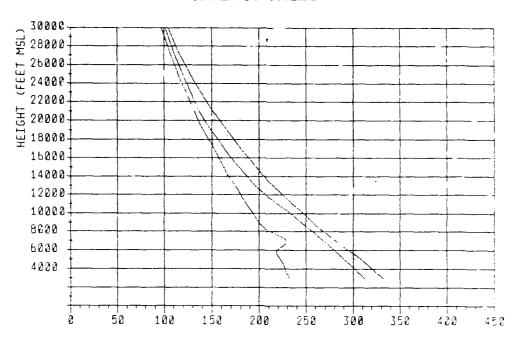
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			DUC				BRU					HORN	AL				SUB		
BASE	ı		TRK PI	ERCENTIL	23	ì	THE P	ERCENT!	LES	1		THE P	ERCENTI	LES	1		THE PE	RCENTIL	.22
PT NOL	1	n/no	10%	50%	901	1 XPRG	10%	50%	90X		XPRO	10%	50 X	90 X	1	XPRO	101	50 X	90 X
2070-2500		6. 7	69	463	758	2.2	69	364	610	1	94.1	2717	6364	31993	1	6.3	94	364	620
2500-4000	1	0.2	295	295	295	1 1.1	76	197	689	i	7.6	1396	3642	21943	1	1.9	98	295	933
4000-4500	ì	0. 5	395	294	492	9.3	94	90	20	1	1.4	137	2116	7864	i	0.5	94	295	591
4300-5000	ı	0. 6	90	344	391	4.1	76	492	994	ì	4. 4	364	14009	28692	ŧ	0.5	295	649	886
3000-5000		0.4	197	197	687	3.7	256	472	1122		6. 3	1565	13062	29758	1	0.3	295	492	689
6000-7000	1	6. 9	197	394	647	7.6	74	295	649	i	4. 0	118	5413	28635	j	1. 0	295	591	2264
7999-0000	i	8. 5	197	394	591	16.5	76	394	649	i	15.3	94	4577	27346	i	3.1	137	648	1344
0000-2000	i	7.3	197	294	492	13.0	96	197	492	i	20.5	96	2461	26412	i	7.6	148	640	1375
7000-10000	1	3. 1	130	295	492	4.2	90	295	492	i	12.1	94	2264	25132	i	7.2	96	492	1024
.0000-11003		2. 6	96	197	293	3.7	98	295	294	. 4 -	18.5	78	4823	24933		6.4	90	649	1575
1000-12000		1.5	94	197	285	3.7	98	197	502	í	7.2	78	1476	22459	i	3.7	94	649	1374
2000-12000		1.3	70	197	394	3.7	98	197	293	i	ā. 2	90	2264	22091	i	6. 1	98	649	1575
		1.2	76	197	295	3.4	96	197	295		4.4	96	2772	21451	i	4. 4	94	591	1220
1000 - 1 1000	· i	1.5	96	76	197	4. 5	96	197	295	i	13. 1	50	3199	20506	i	6. 7	98	443	1883
2000-16000		0. 9	50	96		1 2.7	98	197	295	• •	10.0	98	2690	19423	•	7.9	38		984
6000-17000		6.4	127	164	164	2.1	115	164	228	:	9.4	482	5397	18761				523	
7000-10000		0. 1	164	164	164	1 1.2	164	164	328	:					1	7. •	295	492	997
										:	6.7	623	17061	17717	1	6. 9	164	656	1144
1000 - 1 7000	:	1.2	164	164	164	1 1.6	164	164	328	:	14.	784	15912	16733		8.7	328	492	824
-	•	₩. 3	499	100	164		164	164	328	•	5.1	1226	15032	15562	•	6. 2	180	472	821

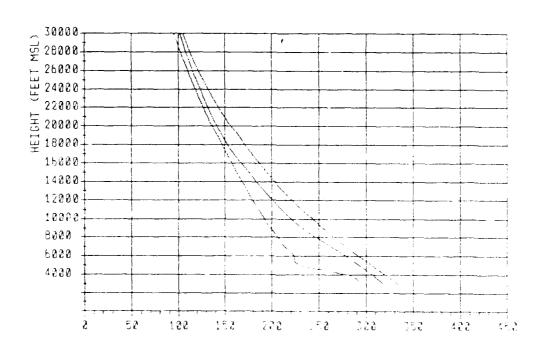
1200Z

FIGURE B-8-1-D

N PERCENTILES



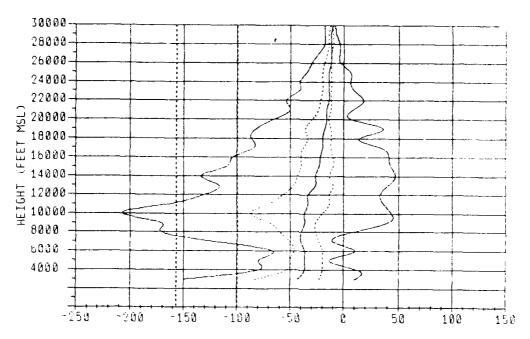
N (N-Units) 0000Z



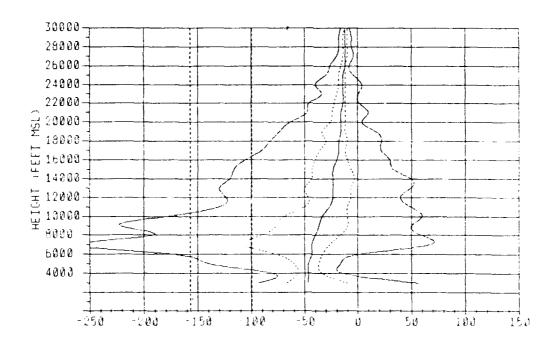
N (N-Units) 1200Z

FIGURE B-8-2-A B-126

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-8-2-B

WET-DRY TRANSITION

TEGUCIGALPA

- HOT		ı			CENTILES			ı		DMD	H PERCEN			11	PERCENT		
PT RE	BL	1 1	K	10%	50%	90 x	771	1	12	18%	50%	90 X	991	11	DUCT !	SRLR I	8UB
8PC-35		234.		302. 97 294. 91		328.69 321.25	336. 24 327. 96			-97, 97 -66, 66	·47.62	-23. 61 -22. 91	7, 96 10, 42	11	3.9	9.1	2.2
4000-45		228		269. 87		314. 92	320.69			-34.16	-37.50	-20. 63	13. 42	ii	0.0	0.4	1.3
4300 - 50	900	226	25	284. 82	296.25	309. 56	315, 36	1 -	77. 00	-34. 16	-37.50	-20. 83	10.17	11	●, ● 1	0. 6 1	2.9
5000-60		222		276.75		300. 56	307.71			-30.00	-35. 41	-26.83	-12.50	11	0.0 1	6. A I	1.2 i
5000 - 70 7000 - 80		: 239. : 226.		267. 35 257. 36		287. 56 275. 56	293, 65 266, 56		66. 66	-47, 91 -30, 00	- 37, 50 - 39, 58	-20.83 -22.91	12. 12 -8. 33	11	6. 0 i	4.1	2.1
8000 - 90		200.		240.23		263.38	268.19			-63.24	- 39. 54	-26. 69	6.64	- 11	4.1	7. 9	4.1
9000-10	1000	198.	42	219. 66	242. 90	250.80	255. 18	1 - 1	69. 27	-78.05	-36.71	-23.44	52. 60	H	5.0 1	10.3	7. ● 1
19000-11				202. 60		239. 90	244. 62			-86.71	-36.71	-19. 92	30. 07	11	9.6	17.6	10.9
11000-12		184. 178.		191.36		228.30 217.10	233.17			-66.66	-33, 33 -30, 87	-13.26	39. 00 26. 87	11	4. 2 1 2. 9 1	10.5 I	8.8 7.5
13000-14		172		176. 20		287. 30	212.36			-57, 36 -47, 36	-26. 69	-13.28 -18.83	46.79	11	2.5	5.9	13.0
14000-1		165		169. 30		198.00	202. 62			- 39, 97	- 26. 56	-18. 63	33. 62	ii	2. 9	5. 9 i	13.6
15000-16		160		163.41		189.96	194.10			-43. 23	-23. 30	-10.03	47. 04	11	2. 1	5.4 1	13.8
17000-17		150		152.60		174. 40	177.96		92. 98 83. 27	-39.18 -36.61	-22. 93 -28. 98	-10.00 -12.03	45. 46 27. 25	11	0. 0 0. 4	3. 4 / 2. 1 /	12 1
18000-19	9000	144	25	146.64	153.60	166. 40	178.60		98. 00	-36. 01	-18.04	-11.95	22. 84	11	1.7	3.3 i	9.2
19000-20	2060	138	92	141.50	145.96	158. 69	162.30	- 1	74. 74	- 32. 03	-16.01	-12.03	22. 03	11	0.9 1	1.3	7.4
20000-21		134		136.90		151. 09	155. 50		53. 98	-28. 04	-16.01	-13.98	6. 39	11	0.0	8. b	5.2
21000-22 22000-23		1136		132.50		144.41	149.14		- 50. 90 - 54. 96	-22.03 -21.95	-15.94 -14.86	-11.95 -11.95	12. 93 19. 99	11	0, 0 1 0, 0 1	2.4 i	7.8 1
23000-24		1121		123.50		132. 50	136.78		36. 81	-20.00	-13.94	-11.95	12.03	- 11	0.0	0.4	5.7
24000-25	5000	116	. 61	119.30	121.70	126.78	130, 64		41.63	- 20. 00	-13.98	-11.95	4. 78	11	0.9	9. 4	3.9
25000-26		113		115.40		121.40	124, 44		32. 03	-18.94	-13.98	-11.95	2. ●3	11	●. ● 1	0.0 1	21.5 i
26000 - 27 27000 - 26		: 1 09 . : 1 0 5.		111.69		116.50 111.70	119.70			-16.01	-12.03 -12.03	-11.95	-4. 86	1.3	●. ● !	0.4	1.3
26000-29		101		107. 30		187.48	189.96		· 20. 96 · 17. 96	~14. 06 ~13.94	-12.93	-10.00 -10.00	-3. 93 -6. 0 2	11	0.0 I	0.01	2. 2 I
29000-30	0000	98	17	100.50		163.98	105.70		20.06	- 12. 03	-11.95	-10.00	-7.97	3.1	0. 0 1	0. 0 i	1.3
30000-3			. 62	97.46		100.48	101.80		-14.06	-12.03	-19.90	~10.00	-6. 89	11	0. 0 1	0. 6	8. 0
31 000-3 2		91	. 21 . 89	94.13		97. 10 93. 80	98. 46 94. 88		-25.14 -13.98	- 12. 03	-10.00 -10.00	~10.00	-6.02	1.1	0.0	0.01	9.4
33000-34			. 68	87.60		90. 20	91.86		- 13. 90 - 19. 23	- 12. 03 - 10. 06	-10.90	~10.00 -8.03	-7. 9 7 -7. 9 7	11	9. 6 I	0. U I	0.0
34000-3	5000	- 81	. 99	85. 50		87. 30			-25. 93	- 10. 00	-10.06	-7.97	-7.97	ii	0.0	0. 0 i	0. 2

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KGT	(N PERC	CENTILES			ſ	DED	H PERCEN	TILES		11	PERCENT	OCCUR	RENCE
PT HSL	1 1%	10%	50 x	90 X	99 x	1 1%	10%	50 X	90 x	991	1.1	DUCT I	BRLR	
SPC-2500	295.76	310.44	322.88	229.81	336.72	1-110.13	-70.83	-45. 43	2.06	74. 55	- .	9.3 1	2. 8	1 11.4
3500 - 4 000	1294.98	307.82	317. 88	323. 38		-83.33	-62, 56	-47, 91	~22. 91	18.63	ii	9. 8 1	9. 7	
1000 - 45 00	1285.99	392.11	318. 66	315.75	329. 57	i -75.12	-56. 33	-45. 63	-33.33	-12.56	EI	0.3 1	0. 0	
1500 - 5 00 0	1277.70	295, 25	383. 19	308. 56	313.50	-97.56	- 58. 33	-45. 63	~33. 33	-14. 94	1.1	0.9 1	2. 2	
3000-6000	243. 54	281.50	291. 25	299. 38	304 92	1-139.58	-62.50	-45. 02	-37. 50	-16.66	- • • -	2. 8 l	5. 3	
5000-7000	1228.32	261.50	277.00	284.69		I - 177. 68	-63. 33	-43.75	-33.33	9. 90	i i	5. 6 i	13.7	
70 00 - 8000	1213.94	238. 20	262. 19	271.69			-106. 25	-43.75	-26.56	61.95	1.1	13.4	19.6	7.
1606 - 9006	1265.50	214. 83	245. 15	258. 56		-191. 88	-86. 59	-39. 9 7	~16.66	58. 57	1.1	8.1 1	17. 1	
9000-1000	0 197.94	203.60	236.88	245. 48	251.70	1-201.93	-73.43	-36, 59	~10.03	45. 96	1.1	6.2	12. 1	11.2
	8 H191.27	195. 20	218.50	233. 31	240. 81	1-193.72	-66. 66	-29. 95	-18.83	53, 27	11	5. 9	6. 3	
1900-1200		188. 30	208.00	221.76		i - 119. 92	-46.74	-26. 56	-9.90	46.74	1.1	2.8	5. 3	11.3
2000-1300		181.80	199.10	212.40		i - 119. 92	-46. 61	-23. 36	-6.64	36. 59	1.1	1.6	5. •	
2006 - 1406		175.50	198.28	203. 90		1-113.41	-46.61	-23.30	-3.39	39. 97	1.1	3.1	Ģ. G	1 14.7
1000 - 1500	# 166.89	169. 20	182.30	195. 50	200. 20	1-123.32	-43.36	-23.30	-3.39	50.00	11	3.1	6.0	
3 000 - 1 5 00		163. 36	174. 66	187.60		1-116.66	-43. 36	-23.30	-10.03	26. 57	11	2.5 1	5. 6	11.6
-000- 17 00		157. 98	165. 80	179. 56		1 -90.00	-42.03	- 20. 05	-12.03	30.00	13	8.3 i	3. 4	
7000 - 1880		152. 25	157.80	171.10		1 -96. 01	- 33. 98	-18.04	-18.00	23. 69	1.1	0.9 :	2. 5	
1000 - 1 900 1000 - 2000		146.48	151.18 144.98	163.78 135.78	169. 99 160. 68	-77.93 -66.61	-33. 98	-17.96	-18.60	24. 96	11	1.6 !	1.3	10.3
		141.40	144.90	133.70	150.50		-31.95	-16.01	-10.00	7.62	 - • • -	6.3 1	1.6	4.3
0000-2100		136.70	139.80	149. 01	153.69		-26. 01	-16. 61	-11. 95	3. 78	1.1	0.0 i	1. 0	4.3
006-2206		132.38	135, 10	142.40		1 -47.83	- 22. 03	-14.06	-11.95	18.98	1.1	0. 3 1	0.3	
2 006 - 2300 3 60 8 - 2466		128.00 123.30	130.50 126.00	136.80		1 -42.03 1 -33.98	-21.95 -28.98	-13.96	-11.95	1.62	1.1	0.0 i	0.7	
	9 116.60	119.21	121.40	125.70	129.60	-33.96	-18.04	-13.98 -13.98	-11.95 -11.95	9. 90 -1. 95	11	Ø, Ø 1 Ø, 3 1	6.6 6.3	
										-1.95	- .			
	0 /112.30	115. 31	117.40	120.60	124. 20	i -30.00	~17. 96	-13.01	-11. 95	-3. 98	1.4	●. ● ∤	B. Ø	1 8.7
1800 - 2700 2800 - 2800		111.60	113.56	116.00		-22.63	-16.01	-12.63	-11.95	-5.94	1 1	8.0 :	0 . 6	
1000 - 2200 1000 - 2900		107.50	109, 50 105, 70	111.80		1 -18.64	-13.94	-12.03	-10.00	-6. 62	1.1	0. O I	8. 6	
3000 - 3000		100.61	102.30	104. 10		-16.91	-13.98 -12.83	-11.95 -11.95	-10.00 -10.00	-3. 94 -7. 97	11	20.00 l 20.00 l	0. e	I 0. € I 0 .5
						•			- 10. 00	-/. y /	- + + -	•. • · ·		
9000 -31 00		97. 40	99. 90	100.50	102.20	-16.01	-12. 03	-19.00	- 10.00	-6. 02	1.1	0.0 I	●. ●	1 0.3
. 000 - 3200		94. 29	95.70	97.30	94.60	1 -24.16	-12.03	- 10.00	- 10. 🗪	-7.97	1.1	0. 0 1	0. e	
5000-3300		90. 30	92. 30	93.80		1 -13.99	-12.03	-10.96	-10.00	-7. 97	1.1	8.9 1	0.0	
9000-3400		87.60	88. 98	99. 29	91.26	- 20.09	-11.95	-10.00	-8.65	-7.97	1.1	0.0 1		
18 96 - 35 9 0	0 1 79.90	85. 50	86. 40	87.30	67, 98	- 20. 00	- 10.00	-10.00	-7. 9 7	-~. 97	1.1	0. D	Ø. ø	ı 8 .€

1200Z FIGURE B-8-2-C B-128

TEGUCIGALPA

WET-DRY TRANSITION

THICKNESS STATISTICS

BASE	ļ			RCENTIL				ERCENTIL		ı		HORN THE P	ERCENTI	LES	1	SUB THE P	ercenti:	LE9 1
PT NSL	- 4 -	MPRO	101	50 X	99X I	17RG	10%	50 X	90 X	1	xpro	7 @ X	50 x	96 x	1 XFR	9 18%	50 X	90X I
3870-2300 3500-4000 4000-4500	1	3.9 0.0 0.0	43	266	364	9. 1 0. 4 0. 0	69 984	364 984	634 984	1	91.8	4270 689	9 098 9449	312 90 3123	2. 1 1.	3 295	689 886	1742 1181
4500-5000	!	●. ●				●. ♣	94	246	394	1	7.1	3563	14009	30270	1 2.	1 295	295	1878 #
5000 - 6000 6000 - 7000	1	0. 0 0. 0			 	0.4	197	197	197	 	1.7	197 3445	8629 15962	19620	• •. 1 1.		1280 295	2266 i
7000-8000	1	2.1	98	197	394 1	4.1	98	394	758	1	3.7	94	4527	27986		4 591	591	591 (
2000 - 7 0000 9000 - 2000		3.7 3.7	197 98	394 275	394 I	5.6 3.3	98 98	344 197	571	!	6.2	98 98	886 886	24739 25 8 21	3.		344 591	1555 I 935 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1 1	8.6 2.5 2.9 2.5 2.9	98 98 98 98 98	295 246 295 148 98	463 295 394 295 295	16.3 8.8 4.2 5.9 5.0	94 98 98 98 98	197 295 98 246 197	394 492 374 492 394	1 1 1	23.4 15.5 8.8 10.9 12.6	96 207 96 98 128	3986 4282 2658 1476 2658	24837 23842 22868 21195 20387	7. 1 6. 1 5. 1 8.	98 4 98 5 177	394 394 689 591 640	1545 : 1516 : 1280 : 1286 : 1161 :
15000-16000		1.7	98	197	197 i	4.6	98 164	197 164	394 328	1	11.7	98 283	292e 292e	19423	7.		492 492	1207 :
17000-18000 18000-17000 17000-20000	1	1.7 0.9	164 164 164	164 164 164	164 164 164	1.7 3.3 1.3	164 164 164	164 164 164	164 328 164		12.1 18.5 7.6	262 853 1608	7546 15912 15 89 2	17881 16788 15617	6. 8.	3 164 4 328	328 656 492	984 ! 966 ! 829 !

0000Z

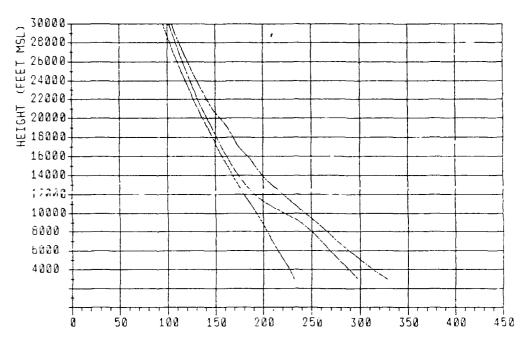
BABE	,		DUC1	rg Ercentil	79	ı	SRL THE P	RS ERCENTIL				MORA THE P	al Ercenti	1.879 i		SUB THE P	ERCENTI	. r 9 :
PT MOL	i	MPRG	70%	50%	961	MFRO	10%	56 X	96X	í	XFRQ	16x	34 x	984	MFRO	Tex	50 x	98X I
2970-2500 2500-4000	1	6. 2 0. 0	266	266	266	2.0	69 98	364 98	463 98	1	90.3 10.0	2845 13 9 9	6663 3888	31993 : 16158	11.4	217 98	364 148	659 I
4008-4500 4500-5000	1	0. 3 0. 7	295 197	295 295	295 295	0. 0 2. 2	98	197	591	1	6.6	4724 5116	5216 14 99 9	5786 36250	0. 0 0. 9	295	394	394
3000 - 6000 6000 - 7000 7000 - 8000 8000 - 9000 9000 - 19000	 	2.2 5.0 10.2 6.2 4.3	96 96 98 106 148	394 394 394 295 295	591 591 492 492 443	3.7 12.1 16.1 13.4	94 98 98 98 98	492 492 295 295 197	886 866 620 638 394	l ! !	4.3 6.7 16.1 20.2 15.5	837 118 98 266 98	8432 1833 2165 3986 3248	29607 17421 27238 26435 25309	0.3 2.5 5.6 8.1 6.2	591 98 98 96 364 98	591 689 394 689 295	391 1373 1336 1732
10000-11000 11000-12000 12000-12000 12000-14000 14000-15000	- 4 ·	5.9 1.9 1.6 2.8 2.8	94 94 94 96 96	293 197 197 197	394 295 197 295 295	5.9 4.4 4.7 5.3	98 96 96 96 98	295 197 295 197 197	531 344 413 297 295	1 1 1 1 1 1	18.4 11.9 9.4 11.0 16.9	157 98 98 98 98	2904 1673 2116 3215 3232	24935 23515 22779 21392 20601	9.1 7.2 7.2 9.7 7.8	98 98 98 98 98	591 541 689 689 640	1476 1309 1752 1752 1243
15000-16000 16000-17000 17000-18000 18000-19000 19000-20000) 1	2.5 0.2 0.9 1.6	96 96 164 164	197 98 164 164 164	295 96 164 164 164	5.0 2.5 2.5 1.3	98 98 164 164 164	197 164 246 164 164	341 328 328 164 328	1 1 1	11.6 9.1 8.4 12.2 2.5	197 331 476 164 492	6791 13042 9678 15912 14928	19817 18832 17586 16631 15584	5.3 4.7 6.3 7.2 3.6	197 144 164 164 328	591 689 492 492 492	1043 1140 1119 880

1200Z

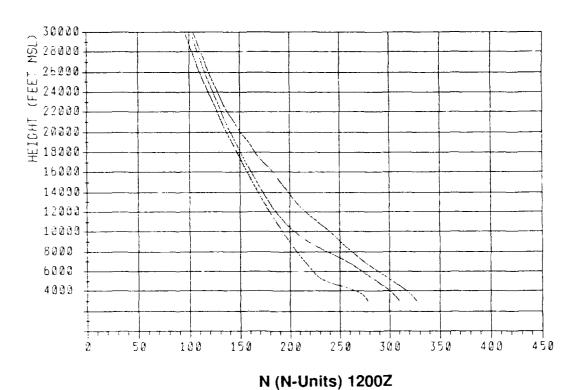
FIGURE B-8-2-D

B-129

N PERCENTILES



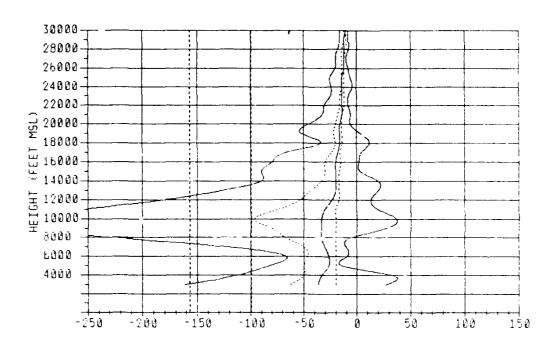
N (N-Units) 0000Z



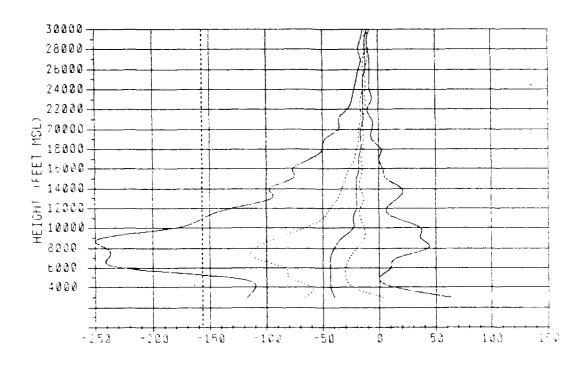
,

FIGURE B-8-3-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-8-3-B B-131

H.C		1			ENTILES			•		DMD	H PERCEN	TILES		1.1	PERCENT	OCCURR	ENCE
PT	KSL	1 1	%	10%	50 X	90 X	991		1%	10%	30 X	90 X	99x	11	DUCT !	SRLR !	SnB
SPC-	2500	1233	. 90	283. 64	200.34	215.69	721.68	1 -	181.05	-66.66	-37.50	-17.86	27, 96	11	2.1 1	3.4 :	4. 1
3500		1230		279. 86	295.73	313.96	324. 41			-58. 33	- 33. 33	-20.05	27.00	1.1	1.4 1	2.3	4. 1
4000-		1227		273.87 269.75	290, 38 285, 19	264. 19 296. 88	313.40			-50.00	-33. 33	-20.83	33, 33	11	●, 5 !	8.9 1	2. 3
4300	- 3000			489.73	203.19	290. 50			- 9 5. 63	-50.00	-31.25	-26. 05	33, 33	11	0, 9 l	1.1	3. 9
3000		1220		262. 32	277. 50	290.75	299.75			-50.00	-27. 66	-18.75	-12, 50	1.1	0. e i	8. 2 I	0.4
6000-		1214		252. 60	268. 25	279. 86	287. 06			-47. 91	-27. 88	~18.75	-9. 90	11	●. 	1.2 1	Ø. 6
7000-		1268		241. 38 223. 58	259. 19 248. 50	269.75 258.25	275. 94 264. 74			-50. 00 -69. 92	-31.25 -33.33	-19. 92 -19. 92	-9, 18 -6, 64	11	1.9 (3.9 i 9.9 i	1.3 2.4
	10000	1197		204. 60	236. 19	246.40	252, 25			-63.33	-33.33	-19.92	36, 71	- 11	15. 3	13.5	4. 9
								• -						- • •		-	
11000-		1191		195, 00 187, 20	218.10 200.80	235. 60 222. 00	241. 30			-98.18 -69.92	-33. 33 -26. 69	-19.92 -19.92	23. 36 13. 28	11	14.6 I	20.0 1	8. 8 5. 8
12000-		1178		189.50	188.40	207.60	217.96			-50.00	-23. 30	-16.66	15.66	31	5.2	2.3	4. 5
13000-	14000	1172	. 10	173.96	179.56	195.96	205. 09	1 -	119.92	-39.97	-20.05	-16 66	23. 71	1.1	3. B i	4.3	4. 8
14000-	15000	1156	. 50	164.00	172. 40	1 86 . 96	197.90	1	-83. 33	- 30. 07	- 20. 05	-16.66	6. 64	4 1	1.1 :	2.4	4. 5
13000	-16000	1161	. 10	162.60	166.30	177.87	149.49	1	-90. 06	-32.35	-19.92	-16.66	8, 00	11	1.1	3.0	2. 6
16000-		1155		137. 28	160.70	168. 90	181.90		-87. 66	-27.96	-17.96	-15.94	7.97	13	1. 3 i	1.7	3. 5
17000-		1150		151.96	154.60	160.78	172.43		-46. 81	-22. 03	~17. 96	-15. 27	4. 66	1.1	●, 4	0.4	3. 3
19000-		1144		146.38 141.35	149.40 143. 90	155.18	156.19		-45. 94 -48, 73	-20.00 -21.95	-16.01 -16.01	-13.96 -13.96	13. 96 3. 98	1 I	●, 2 ●, 9	1.1	4. 6 2. 5
		· •						• -						- • •			
Stoco -		1134		136.80	139. 20	142.50	151.90			-18.04	-15.94	-13. 98	-7.25	1.1	9. 9 . 1	0.0 1	1.4
21000-		1136		132.40	134.70 130.30	137.68 133.88	145.18		-30.00 -30.00	-16.01 -16.01	-13.98 -13.98	-13.98 -12.07	-7, 28 -9, 24	11	Ø, Ø ∣ 36, ώ ∣	0.0 i	9. 7 9. 5
23000		1120		12350	125. 90	128.40	133.68		-22. 03	-15.94	-13.96	-11.95	-6. 85	11	0.0	8. 8	e. 5
24000	25000	1116	. 23	119.50	121.50	123. 90	128. 30	1	-23. 98	-14.06	-13.98	-11.95	-7.98	1.1	0. B i	0.0	1.6
23000	26000	(112	. 24	115.66	117.60	119.72	123.30		- 27 GA	-14.06	-12. 03	-11.95	-7.97	11	0.0 (8.0	0.2
26000-		1100		111.98	113.80	115.80			-20.00	-12.96	-12.03	-11.95	-7.97	- 1 1	9. 0	0.0	0. 7
27888		1103		107.80	189. 50	111.80	113. 93		- 18. 84	-13.90	-12.03	-10.00	-10.00	1.1	0. D 1	0. O I	●. ●
24000			. 93	104.30	106.00	107.70	109. 20		-16.01	-12.63	-11.95	-10.60	-7.97	1.1	0.6	0.0 1	0. 9
29000			. 32	101.00	102.60	104.20	105.50		-1 5.01	-12.03	-11.95	- 10. 06	-8.05	11	●, ●	0. 6 I	0.2
	-32 000	1 92	. 82	97.78	99. 30	100.80	161.90		-18.83	-12.03	-10.00	-10.00	-7. 97	1.1	●, ● 1	●, ● i	0.5
	- 32006		. 12	94. 56 96. 98	96. 00 92. 50	97.50 94.19	98. 59 95. 66		-20,00 -1.06	-12. 0 3 -12. 0 3	-19.00 -10.00	-10.00 -15.00	-7, 97 -7, 97	11	0.0	0.0	8. 0
33000			. 70	87.80	89. 10	98. 58	91. 29		-17 96	-11.95	-10.00	-16.00	-7. 9 7	11	5, 0 1 5, 0 1	9. 0 : 3. 0 i	0. G
34000	- 35000	1 80	. 30	63. 60	86.60	87.60	80.10		-16.01	-10.00	- 18.90	-7.97	-7.97	11	Ø. 8	0.0	6.0

0000Z

- HGT	,		ENTILES			1		DMD	H PERCEN	TILES		u	PERCENT	OCCURR	ENCE
PT MBL	1 1%	19%	50 x	901	991	1	1%	10%	581	96 x	991	1.1	DUCT !	SRLR	848
SFC-3500	1286.40	303.00	313, 25	322.75	329. 75	1-11	2.50	-66. GE	-37.50	6.33	64. 56	11	0.4	2.8 1	16.3
35 98 - 496 8	1277.98	299.69	369. 19	317.56	325. 16			- 62. 50	-39.58	-4.17	30. 00	11	1.1 1	1.6	13. 4
4000 - 4500	1272.78	293. 56	303, 25	311.00	318.39			-60.41	-41.66	-22. 91	12. 50	1.1	9. 2 I	1.8 :	3. 1
4500-5000	1266.30	287.34	297.19	384. 69	311.33	1-11	5. 89	-62.56	-43. 75	- 27. 88	9. 96	::	1.2	6.2	2. 1
5000-6000	1238.37	273. 58	285, 75	295. 25	361.75	1-14	.5. 83	-81.25	-43, 75	-29.16	0. 00	11	3.5 (10.5	1.6
5000-7000	: 223. 51	250.00	271.19	280. 69	287.19	1-24	5. 63	-86. 59	-43.75	-31.25	10.03	1.1	9.5	12. 6	2. 8
7000-8000	1214. 20	227. 50	256.88	267.56				-119.62	-43.75	-26.69	16. 66	- 1.1	16.6	20.1 1	4. 9
4000 - 900G	1265. 40	210.10	234.60	254. 50	251.00			-103. 38	-39. 97	-29.95	37. 66	1.1	18.1 1	24.6	7.2
9000-10000	1198.40	200.70	216.00	240.78	248.70	1-23	33.30	-83, 33	-33. 33	-13. 26	33. 33	11	10.9	16.1	7.7
10000-11000		193. 50	203. 30	227. 38	238. 30			-63, 28	-23.44	-13. 41	26. 69	1.4	6. 1 i	18.0	7.4
11000-12006	1184.79	186. 40	192. 80	214.10	225. 32			- 30, 98	- 23. 30	-16. 66	19. 94	1.3	5.1	7. 🐁 1	4. 6
12000-13000		140.00	184.60	203. 00	213.56			-39, 97	-20.05	-13.41	6. 28	1.1	2.3	5.6 (3. 0
13000-14000		173.60 157.80	177.86 171.38	193.16 183.60	264. 32 196. 69			-33, 33 -30, 07	- 26. 65 - 19. 92	-13.41	29. 65	11	2.3	3.3	4.7
14000-13000	- 4							-30.0/	-19.92	-16.66	13. 28		1.8 i	3.7	4.0
15006-16000		162. 36	165. 50	174.60	166.60			-26.69	-19.92	-16. 66	10.03	1.1	0.5 i	1.2	3. 5
16000-17000		156.90	160.10	167. 20	188.90		78. 64	-25. 00	-17. 96	-15.94	2. 83	1.1	8 .7 i	1.2 1	2. 6
17000-18000	1150.79	151.76	154. 36 148. 90	159.80 153.60	170.17	-	3. 94	-21.95	-16. 6 1	-15.94	0.00	1.1	0. ● 1	9.5	1.9
19000-19000	1140.90	141.30	143.56	147.09	163.60 135.62		50. 00	-28.60 -18.64	-16.01 -16.01	-13.98 -13.98	8. 90 -8. 95	11	8.4 i	1.1 6.2	2. 6 8. 9
								- 10. 01	-10.01	-13.50		-44			
20000-21000		136.70	138. 98	142.00	148. 02			~17.96	-14.06	-13. 98	-6. 02	1.1	0.0 1	0. O i	1.3
21000-22000		132.30	134.58	137. 20	142.56		2. 63	-16.91	-13.98	-13.98	-6. 62	į t	• •	₽. Đ	0.7
22008 - 23008 23008 - 24008	1125.50	128. 20 123. 50	136, 26 125, 76	132.50 128.60	136.78		26. 01 23. 98	-16.01 -14.06	-13.9 4 -13.9 4	-12.03 -11.95	-7.97	11	0.0	8. S I	0.2
24888 - 25888		119.50	121.40	123.46	126. 20		22. 03	-14.06	-13.98	-11. 95 -11. 95	-5. 94 -7. 9 7	11	9.8 I	8.8 I	8. 9 8. 7
		·								-11.95					
25000-26000		115.70	117.50	119.46	121.80		20.00	-14.06	-12.03	-11.95	-7. 9 7	1.1	0.0 I	0.0 I	8. 2
26000-27000	1109.00	112.00	113.75	115.60	117.50		6. 81	-13.98	-12.03	-11.95	-7. 97	1.1	Ø. Ø I	0. O I	0. 6
27009-28009 28000-29000	1104.83	197. 98 1 84. 48	189.88	111.78 187.78	113.93		8. 84	-13.98	-12.03	-10.00	-8. 63	11	0. 0 1	8. 8 I	0.0
29886 - 38889		101.00	192, 58	104.28	183.70		6. 81	-12.83 -12.83	-11.95 -11.93	-18.00 -18.00	-8.61 -10.00	11	0.0 1 0.0 1	9.0 i	8. 8 8. 8
								- 12. 03			- 40.00	- 4 4	• • • • • • • • • • • • • • • • • • •		
30000-31000		97.80	99. 38	100.80	101.97			-12.03	-10.00	- 10. 60	-7.97	1.1	0.0 (Ø. @ 1	8. 2
31000-32000	96. 26	94. 68	96, 10	97. 68	98.78		15. 62	-12.03	-10.00	-10.00	-8.05	- 1-1	\varTheta. 🖨 🕕	0. Ð I	●. ❷
32000 - 33000	86.80	91.60	92.68	94. 20	95. 26		6. 01	-12.63	- 10.00	-10.00	-7. 97	1.1	0.0 (0. 0 I	0. 0
33698 - 34888 34666 - 35888	88.60	67.98 65.78	89. 20	98.68 87.68	91.38 88.20		8.04	-12.63	-18.60	-10.00	-7.97	1.1	0.0 !	8.0	0 .0
74664-12666		63.70	86.70	a/.60	59. ZT	1 - 3	6. 61	-10.60	- 10.06	-7. 97	-7.97	1 1	0.0:	0.0 i	0. 0

1200Z FIGURE B-8-3-C B-132

THICKNESS STATISTICS

2.00			DUC				9#L					HORH					909		
BASE	,			ercenti		,		ercenti					'ERCENT		•			ercenti:	LEN
PT NSL		XPRO	7 8 X	50 X	90 X	1 XFRG	7.0%	50 X	90 X	1	xfro	707	50 X	30 x	ł	MFRQ	70X	50 X	90
29FC-2500		2.1	141	266	1256	1 3.4	69	364	1027	,	93. 1	4684	7857	31977	1	4.1	292	659	174
3500-4000		0.5	197	391	984	1 0.5	98	591	1083		4.4	197	6394	37333	1	0.9	295	984	128
1000-4500	i	0.0	•••			1 0.2		492	492	i	0.5	5905	9334	12763		0.0			
1500-5000	i	0.7	197	295	295	0.4		148	197	i	10.4	3738	11992	30250	i	1.2	197	295	29
	- • -					·				. . .					<u>.</u> .				
3000-6000	1)			1	1.9	4429	13911	30152	1	0.4	197	648	100
-7000	- 1	0.6	34	197	197	1 1.5	98	443	689	i	0.6	1083	3445	4527	i	0.4	492	787	100
-	i	1.7	70	295	591	i 3.4		295	549	i	4.5	295	7185	27297	i	1.1	197	787	110
900-9000	i	8.4	197	394	492	i 5.7	94	197	522	:	4. 0	295	19751	26904		. 9	98	394	13
P000 - 1 0000	. :	14. 0	796	295	433	12.		197	391	:	14.8	295	25230	26018		1. 1	197	492	84
						•				. . .	14.0		23230	20010	- i	4. 4	197	772	-
-11000	ī	12.2	98	295	394	1 18.5	98	197	492	1	28.8	98	24246	24935		6. 4	98	443	13
600-12000		7. 8	167	295	394	1 10.		197	394	·	15.1	325	23262	23951		2.6	98	492	15
1000-12000		4.3	94	295	394	6.3		197	364	:		98		22868					
1000 - 1 9400			94		374					!	9.1		22179			2. 6	96	886	149
		2.4		197		1 4.5		197	295		7.8	98	21096	21982		2.8	98	492	70
1000-15000		0.5	50	197	197	1 1.1	98	98	295	!	4.1	98	12615	20703	!	2.6	98	591	90
3000 - 1 6000	1 1	0.9	78	197	197	3.0	98	148	344	•	5. 2	167	19079	19748	•	1.3	98	295	62
		1.3	98	164	230	1 1.3		164	164	;	4. 3	755	18045	18537		3. 0	164	492	9:
7000-18000		0.4	164	164	164			164		:	2. 2	1001		17701		2.4			
1000-19000									164	:			9679				361	696	72
		0.2	164	164	164	! •.		164	164	•	4.8	558	15912	16174	1	3. 5	164	492	7
1000 - 2000 0	1 1					1 1.3	. 154	164	154	ŧ	2.7	869	15174	15584	- 1	1.6	328	656	•

0000Z

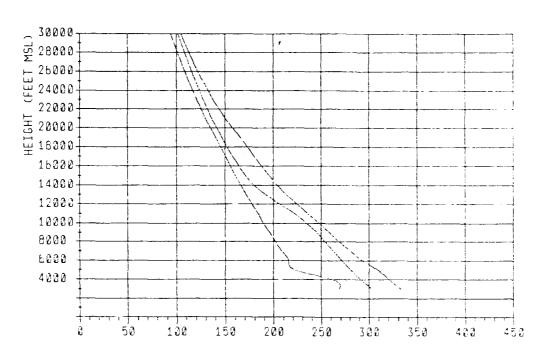
			DUGT				SRL					NORM					909		
BASE	1			RCENTIL				ercentil	.E9	ı			ERCENTI	LES	ι		THE P	ERCENTI	29 1
PT REL	1	XFRO	193	50 X	961	XPRO	792	50 X	90 X	1	MPRO	10%	58 X	901	1	XFRQ	18%	50 X	90x 1
22FC-2500	1	0.4	463	512	361 1	2. 8	69	266	463	ı	86.4	1544	5187	31993	1	16.3	266	463	758
3500-4000	1	●. 7	197	344	492	1.5	197	492	1003	1	13.6	1614	3248	6948	1	2.6	98	443	984
4000-4500	t	0.2	391	591	591	0. 9	197	394	689	1	5. 3	1476	3150	6988	1	9.7	98	148	295 :
4300 - 5000	ŀ	1.1	197	295	492	6. 2	98	394	984	1	4. 1	394	13845	30256	1	1.6	98	295	2559
3000-6000	1	3. 2	96	294	600	5. 4	98	294	827	1	9. 6	1181	29217	30083	1	0.7	98	443	1476
6000-7000	•	7.9	197	492	591 1	10.0	98	295	728		9. 2	217	2756	28715	1	2. 1	98	295	1122 :
7000-0000	1	13.1	197	394	531 1	17. 3	96	295	591	1	17.3	94	5216	27986	1	3. 9	197	492	1329
5000 - 2000	i	14. 0	26	394	492 1	20. 2	98	295	591	1	25. 6	167	7382	27002	1	5. 4	98	540	1378 1
2000-10000	ı i	7.9	197	295	492	12.5	96	197	423	1	18.9	98	14862	25821	1	4.7	94	492	965
10000-11000)	5. 8	96	197	394	9. 1	98	197	394	- - -	16.5	591	24345	25034	1	3. 9	256	738	1319
11000-12000	1	4. 7	98	246	295	6.3	98	197	394	1	10.0	98	23163	23951	1	3.5	94	394	945
12000-12000		1.9	96	197	295 1	4.4	98	197	394	1	6.7	98	22179	22868		2. 5	98	689	1879
13000-14000		2.3	76	197	256	2. 8	98	197	315	j	6. 1	94	20998	21884	1	3. 2	98	649	1240
14000-15000		1.4	78	146	295	3. 3	78	197	295	i	6. Đ	3018	29467	20801	1	2. 1	128	689	1398
15000-16000) 1	0.5	98	96	197	1.2	98	148	794	1	3. 3	1506	19177	19807	1	2.1	187	785	1286
15000-17000	1	2 . 3	154	164	295	1.2	131	164	324	ı	3. 3	636	18537	18931	1	1.6	131	558	526 I
17000-18000	i i	0.0			1	6. 5	164	164	328		1.6	164	17553	17881	1	1.2	492	1148	1640 1
10000-12000		0.4	164	164	164	1.1	164	164	164	i	3. 5	820	16876	16733	i	1.6	164	164	820
19000-20000		ě. ě				0.2	164	164	164	i	ē. 5	656	2461	15420	1	0.7	328	738	984

1200Z

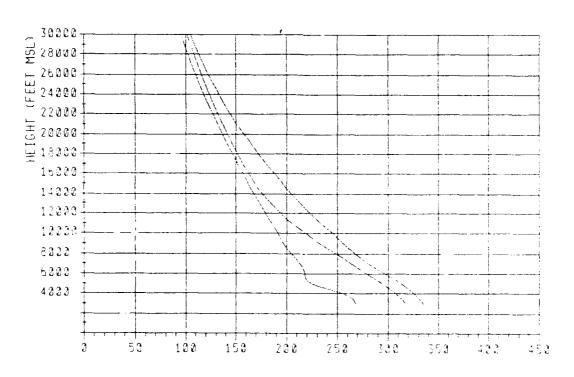
FIGURE B-8-3-D

B-133

N PERCENTILES



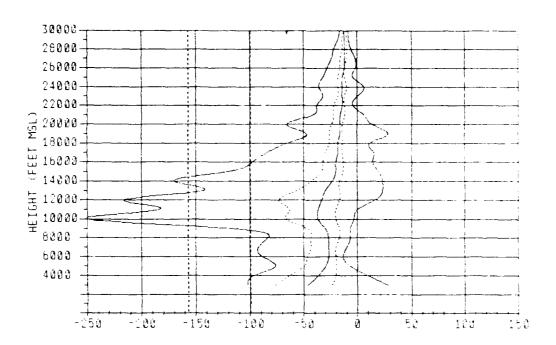
N (N-Units) 0000Z



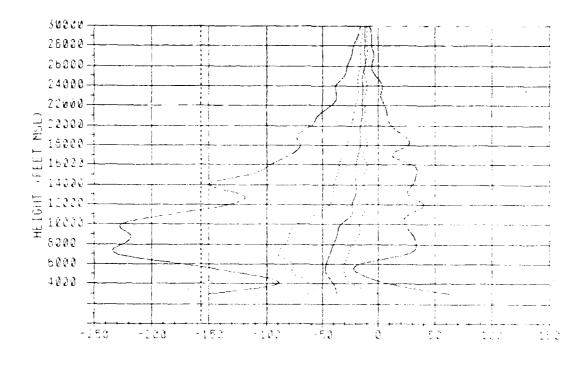
N (N-Units) 1200Z

FIGURE 5-6-4-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-8-4-B B-135

TEGUCIGALPA

DRY-WET TRANSITION

- HOT	1	M PERCE	ENTILES			t	DND	H PERCES	TILES			PERCENT	OCCURA	PMCP I
PT REL	1 1%	16%	50%	981	991	1.8	10%	501	901	993	ΕĒ	DUCT 1	PRLR I	SUB (
9FC - 2500	269. 59	286.19	207.88	226.80	338.18	1-107.91	-79.16	-47. 91	-23. 81	28.75	16	0, 0 1	2.4 1	3.4
2500 - 4000	1267.91	282.87	301.63	318.77		- 99. 29	-71.04	-43.75	- 20. 63		1.1	●. ● i	1.0	3.9
4000 - 4500	1264. 37		294. 56	311.17		-93.10	-62.50	- 37. 50	-18.75	10.42	1 1	●. ● 1	1 1	2.4
4500-5000	: 259. 37	272. 86	287. 88	305.16	318.62	- 89.37	-58.33	- 33. 33	-18.75	6. 56	F 1	1.4	■. S	1.8
3000 - 6000	1221.67	264. 69	266. 19	296. 38		L -77. 👀	- 50. 00	-29.16	- 20. 05	-6. 25	11	0.5	6, 9	9. 8
5000-7000	1214.73	256. 69	271. 86	264 36		· -84, 94	-45.63	- 27. 08	-20.65	-12.50	1 :	. e i	1.6 1	0.4
7 900 - 6000 8000 - 9000	1208.26	248. 51 229. 26	262.25	272.75		-92.58	-43.75	-27.08	~19. 92		U	0.4 L	1.3 (8 .9 i
	1201.15		252. 85 243. 56	262.00 250.80		1 -86,59 1-124,54	-43.75 -50.00	- 26. 69	16 75		1.1	• 4	33.	8.4
					136. 13	******	- 30. 00	- 29. 95	-16.66	-3.39	11	2.2	4.5	8,9
	1188.14	294. 52	231.90	240.88		1-248.43	- 66. SE	~36.71	- 20. 05	-6. 64	1.1	8.5 i	11.2	1.8 1
11000-12000	182.00		218.20	228. 20		1 - 200. 59	- 66. 01	- 33. 33	-19.92		1.1	6.6 :	14. 9	3.2 1
	1176.36	181.48 174.50	292.59 188.65	215.48 205.78		1-207.25	-69. 92	- 33. 33	-16.66		E I	9.5 1	14.9	5, 🕛 1
	164.49		176.78	195.79		1-159.03	-53.36 -39.97	- 26. 69 - 23. 30	-16.66 -16.66		1 1	5. 0 1 5. 5 i	7.7 1 5.9 i	5.9 i
	•								- 1 5 . 5 5		• • •			J. J
	159.19	162.60	168.90	187, 29		1-116.97	- 33. 33	- 20, 05	-13.41	23. 30	ЕT	1.6 (5.9 (5. 5 i
	1154.13	157.30 151.60	162.60	176.90		1 -81.31	- 30. 00	-19.92	-13.98		1 1	0.9 1	1.6	5.5 1
	143.50	146. 20	155.98	170.95 163.25		- 57, 77	-30.00 -26.01	-18.04 -17.96	-14.06		1.1	0.9	1.4	5.5 (
19000 - 20000			144.60	136.19		-45.70	-26.01	-16.01	-13. 98 -13. 98		1 1	8. 0 1 8. 0 1	1.5 1	7.8 . 3.9 i
• • • • • • • • • • • • •	•					•								
	1122.52	136.70	129.66	148.87		-52.73	- 23. 94	-16.01	-12.03		ı ı	●. ● i	0.5 (5.4 :
	1128.88	132.40 128.18	125. 20	142.10		-43.98	- 22. 03	- 14. 86	-12.03		1-1	●. ⊅ /	●. Ø →	4. 0
	119.61		136.79 126.26	136, 28		-36.01 -32.98	- 20, 00 - 17, 96	-13.98 -13.98	-11.95 -11.95		1 1	●. ● i	0.6	1.0 1
	1114.80		121.70	126.10		37, 96	17.96	- 13. 98	-11.95		1.1	0.0 i	0.9 I	4.0
	•					•					• •		 -	
25000 - 26000	1119.65		117.79	121.10		- 26. 01	-16.01	-12.03	- 11. 95		1 1	0. D	●. ● i	1.5
26886 - 27888 27888 - 28888	196.67		117.88 109.88	116.98		- 26. 01	-16.01	-12.03	-11.95		1. 1	0.0)	●. ● ±	1.5
	98.65	104.00	105.90	198.10	115.00	-21.98	-14. 06 -13.94	-12.03	-10.00			•. • •	●, ● +	3.6
29000 - 20000	95.15		102.50	104.40		-16.91	-12.6	-11.95 -11.95	-10.00 -10.00		11	0.0 i	6. 0 1	9.5 f
20000 21000			. 			•					٠.			
31000 - 31000 31000 - 32000	91,79	97.58 94.28	99. 26 95. 98	101.00		-16.01	-12.03	-10.90	-10.00		1 1	8. O +	0.0 i	0. e i
32000-32000	85.20	98.76	92.48	97.68 94.18		: -24.04 : -13.98	-12.03 -12.03	-10.00	-18.00		i E	0. 0 t	0. B	1.1
33000 - 34000	81.87	87.60	89.00	98.30		29.96	-12.03	~12.00 -10.00	-10.00 -10.00		: 1	8.9 i	6.0 I	8. 6 t
34908-35008	79.14	85.50	86.50	87.50		-21.99	-10.00	-10.00	-7.97		1.1	8.0	0.0	● . B
												_		

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HGT		1		×	PERC	ENTILES	3		t		DED	H PERCEN	TILES		1.1	PERCENT	OCCURR	ENCE
FT MSL	-	1	*	1	e x	30 X	90 x	991	1	1 %	10%	3 9 %	96%	991	1.1	DUCT I	SRLR :	9 UB
SFC - 356	10	275	. 51	205	. 87	319.69	221.56	227.80	1-1	66.66	-70.21	-35.41	9. 97	68. 21	: 1	2. 2	3. 2	13.6
3533 - 466	9	. 258	21	362	. 35	316.90	325.50	331.59	1 - 1	60.06	-54, 33	-37.59	-10.42	50.00	5.1	Ø. 9 i	9.9	10.1
4000 - 456		262		297		310.56		326.19			~54, 37	- 39. 58	- 20. 63	4.17	1.1	●. 3 1	O. 9 (2. 5
4500 - 500	9	231	. 38	29.	. 73	364. 56	313.60	321.17	! - 1	16.66	-62.50	-43.75	-25.00	1.77	11	6.6	3.6	1.8
3060 - 600	H	1224	40	276	. 25	292. 36	363.00	310.56			-79, 16	-47. 91	- 29. 16	-14.58	1.1	2.4	9.4	1. 2
6968-788		1217		253		277. 25		294. 32			-77.88	- 45, 67	-31.25	- 15. 66	1.1	5. 5 i	9.5	i. 5
7 800 - 80 0		1373		232		262. 25		279.75		29. 31	- 93. 36	-43.75	-26.69	23. 30	1 1	7.7 1	15.7	3. 6
1000 - 900		204		212		245.60		266.17			-83, 33	39.97	-23.39	36.71	1.3	8.6 ±	15.4	5. 6
9 000 - 100		1 96	. 27	202	. 36	229.00	246.30	253. 66	1-2	94.33	-76.69	- 36. 59	-16.66	27.64	11	4.7 1	11.3	5. 3
1000-116				194		215. 16		242. 90			-78.05	-29. 95	- 16.66	20. 05	F-1	6.8	10.4 /	8 7
1940-126		1793				201.00		231.00			- 36. 🚕 -	23. 26	13 20	26.69	()	6.2	8.6	9. 2
2000-176		117		180		191.30		228.42			- 39 . 9 7	- 20. 65	- 10. 03	33. 98		2	3.5	:
3000 - 148 4000 - 150				174		182.29 174.19		202.00			- 39, 99 - 39, 97	- 20. 65 - 20. 65	-10.03 -13.28	29. 33 33. 95	11	3.6 :	7.1 F	8.6 9.2
									- 4		- 30. 9/		-13.20					
3000-160		160		162		166.60		193. 70			- 33. 33	-20, 05	-13.24	26.69	1.1	2.1	4.1	8. 9
5000-178		: 133		157		161.11		185.96		88.69	- 33, 96	-18.04	17 41	31.97	1 !	1.2	3.3	9. 5
7000-166 6005-196		1150		151		155.30		177.44			- 20, 00 - 26, 01	-17.96 -16.01	-12.03 -10.08	13.99 27.96	11	1.2	1.2 1	7.4
9000 - 190 9000 - 206				141		144.46		161.85		63. 10	24.06	-16.01	-12.03	17.13	11	8.6	6.9	5.6
									- •			- 10. 01	- 12.03		- • •			
9999 - 2 16				136		133.70		154. 55		48 04	· 22. 03	- 16. #1	-11.95	14. 03	1.1	● . ● □	0.3 L	6. 2
1000 - 224		1130		132		135.20		148.45		53.10	21.95	- 14. 35	-ii.95	7.09	1 1	●, ⊕ ।	8 .3 I	5. 6
2000-230				128		126.39		142.45		41.11	- 20. 00	-13.96	-11.95	3. 98	1 1	0.0	Ø. 6 :	3.4
3666 - 246 4666 - 256				119		121.90		136.50		38. 84	-18.04 -28.00	-13.96 -13.96	~18. 06 -11.95	3. 98 3. 92	1 t	0.0 i	8.0 1 0.0 1	3. 4 4. 3
		•						. .				- 13. 90	- 11. 93		• •			
3000 - 260				115		117.80		125.18			-17.96	-12.03	- 11. 95	-4.46	1 1	0.0 1	0 . 0 1	1.2
5000-270				111		113.90		120.20		26. 01	-16.01	-12.03	-11.95	-6. 02	1.1	0.0	0.0	1.6
7896 - 286 8066 - 299		104		187		189.96		115.57		17.96	-16.01 -13.98	-12.03	-19.99 -19.98	-6. 02 -6. 02	1 1	0.0 : 0.0 :	9.0 ·	0.5 0.9
9666-366				100		102.50		186. 29			-13.98	-12.03 -11.95	-19.00	-6.02	1.1	9.9	0.0	8.6
		•	. .								• • • • • • • • • •		- 10.00					
9666-316		93		97	. 60	99. 20		182.48		16.01	-12.03	- 10.00	-10.00	-6.02		Φ. 🛭 ı	■. Ø →	0.3
1000-326			. 07		. 30	95. 90		98. 98		21. 95	-12.03	-10.00	-10.96	- 7. 97	1.1	② € t	0.0 I	0. 6
2000-336			. 75		. 70	92. 40		95. 36		13.98	-12.03	-18.90	- 16. 😎	-7.97	1.1	Ø. Ø i	Ø. Ø +	0.0
3886-349			. 20		. 67	89.00		91.20		21.97	-11.95	-10.00	-10.00	-7.97	1.1	Ø. 9	6 , 6 t	0.0
4 0 90 - 356	6.0	60	. 49	85	. 50	86.40	87.40	88.09		23. 98	- 10.00	-18.00	-7.97	-7.97		8 . 9 :	● ● □	₽. ●

1200Z FIGURE B-8-4-C B-136

TEGUCIGALPA

DRY-WET TRANSITION

THICKNESS STATISTICS

BARE				747 8	rs Ercentil			ERL					NORM					909		
PT MEL		:	1789						ERCENTI		1			PERCENT	LES	1		THE P	ERCENTI	LES
7 1 Maria		: •		18%	56%	901	1 AFRO	70%	503	901	1	AFRO	10%	50 x	9 0 x	ì	x FRQ	787	50 X	90 x
28FC - 350		ŧ	•. •				1 2.4	43	126	1322	1	96.1	5379	9222	31966		3.4	535	933	1617
3500 - 400		ì					i 0. €				1	2.9	3347	7637	31333		Ø. 5	492	492	492
4000 - 450	•	1	•. •				0.5	394	394	394	í	1.5	94	14698	30742		ē. e	772	772	447
4500 - 500	•	1	1.4	197	295	293	4 0.0			324	i	10. 8	6440	14869	20299	i	0. 5	197	295	394
		• - •			·		•	·			- • -				. 					
3000 - 600		ŧ	e. 5	394	394	394	i . 9	394	341	689	1	1.4	13911	14675	14073					
5000-700		1	. o				9. 9	197	344	492	1	2. 2	1879	11924	28479		1 . 4	689	649	
7000-800	•	1	0.4	371	591	591	1.3	94	394	394	i	2. 2	295	5610	16011		0.4			689
1000-100	•	ı	0.4	197	197	197	1 2.2	295	293	787		2. 2	98	2953				94	98	98 :
7000-100	-	1	2. 2	197	394	492	3.6	74	394	787	:	4.6	767		26116		0.4	649	649	689
		•					•					•. •	/ • /	14534	25624	1	. y	394	640	886
10000-110	••	1	8.1	74	295	404	10.0	98	295	492	• •	12.1				- • -			<u>:-</u>	
11000-120	فف	i	7.7	94	295	394	12.2	74	197				1299	9958	24669		1.3	197	295	492
12000-130			5. 8	94	197	335	12.2	74		591	1	12.2	335	23163	23672	1	3. 2	197	454	1375
13000-140			4.1	94	295				197	294	,	18.9	1102	22277	22864	1	3. 6	96	443	1181
1 4000 - 1 50			4.	- 54		394	6.4	98	197	394	1	₹0. 5	78	9693	21795	1	4.1	98	295	845
		•			197	295	3.9	98	94	295		8.2	98	4700	27861	1	3.7	74	649	1200
1 5000 - 1 600		ı	1.4	197	295	295	5.9	94	94	334	1	7.8	98	3543	19325	• -	2. 3	94	433	
15000-1760	•	1	0.5	164	164	164	1 1.4	131	154	328		5. 0	453	11844	18862				427	1148
17000-1500	-	į	0. g	164	164	164	1 1.4	164	154	324		5. 0				•	4.1	164	492	1148
14000-1900	-						9. 7	164					164	2797	17397	1	4.1	164	410	1115 :
19000-200		f	ĕ. ĕ						164	164	,	7.8	787	14100	16158	1	6. a	164	164	886
		•					1 1.0	164	246	228	1	1.5	1884	3609	7718		2.5	492	696	984

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BARR :		DUCTS THE PERCE	MTILES	1		SRLI THE PI	rg Ercentii	.Eg	,		HORN T XKT	AL ERCENTI	1.29		DUB THE PI	RCENTI	 :
PT NSL	EFRO	10% 3	M 2 96) X	17RG	10%	50 X	901	i	MFRO	7.07	50 x	961	XPRG	7 @ X	50 X	367 I
397C-3500	2.2	69 1	67 85	16 i	3. 2	72	197	541		88.3	1654	6466	31993	13.6	266	463	736
2500 - 4000	0.6	56 2	97 29	15 1	0.6	98	197	295	1	13.8	787	2937	8603	2.5	94	295	689
4000 - 4500 i	Ø. 3	295 2	195 21	15 1	0.9	294	492	492	1	4.1	925	3937	21398	0.9	98	295	492
4500 - 5000	9. 6	295 2	195 21	5 1	5. ●	177	492	1003	1	6. 8	1161	14009	30309	1.2	197	295	591
5000 6000	2. 1	90 2	195 59	11 1	5. 0	98	394	709	- + -	8. 0	1142	29168	29975	0.9	295	492	492
6000-7000	4.7	98 7	194 62	: (7.4	98	394	896		5.2	254	2542	28498	1.5	197	394	1083
7000-0000	6. 2	116	194 31	11 1	13. 0	74	295	649	1	12.7	157	4423	27435	3. 0	134	787	1988
1000 - P000	6. 8	197 3	194 41	2 :	12.4	94	294	837	1	14.2	325	4970	26688	3. 8	98	394	1355
7000-10000	3. 9	136	194 45		7.7	94	295	591	3	13.4	264	4478	25919	3.6	98	492	965 1
10000-11000	5. 8	176 7	95 45	3 :	9. 6	98	197	294	- • -	16.9	94	3691	24837	5. 0	98	591	1772
11000-12000	5. •	94 2	195 21	H4 1	8. 3	20	197	394	t	12.4	98	7313	23652	6. 4	217	787	1457
12000-12000	1.5	197 2	195 21	15 I	5. 0	78	197	394	à	18.1	98	9744	22868	4.7	98	886	1269
13000-14000	3.6	74 2	46 29	5 i	7.1	98	96	344	i	12.1	98	3455	21766	5	94	649	1565
14000-15000 1	3. 0	90 1	.97 21	5 !	6. 2	76	197	295	t	10.9	118	4396	29684	5.3	94	591	1654
13000-16000	2.1	98	98 29	3 1	7.8	98	197	354	- • - 1	7.4	98	3543	19462	5. 0	198	591	915
16000-17000 1	1.2	76 2	64 16	4 1	3.3	195	164	204	,	8.6	387	18045	18839	5. 6	326	334	1148
17000-10000	1.2	164 1	64 16	4 1	1.2	164	164	164	1	6. 9	312	5414	17504	5	295	656	1345
10000-19000	0.6	164 1	64 16	4 1	2.7	164	164	328		9. 6	361	15912	16569		164	492	820
1 7000 - 20000	■. 6	164 1	64 16	4 1	ě. 7	184	164	164	1	4.3	361	2953	15420	3.4	197	426	1146

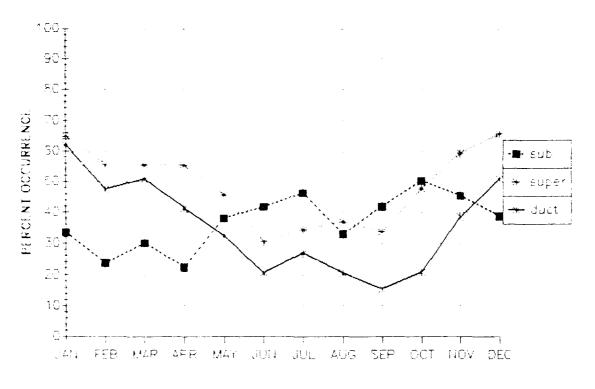
1200Z

FIGURE B-8-4-C

B-137

TEGUCIGALPA MONTHLY

AP PERCENT OCCURRENCE FREQUENCY





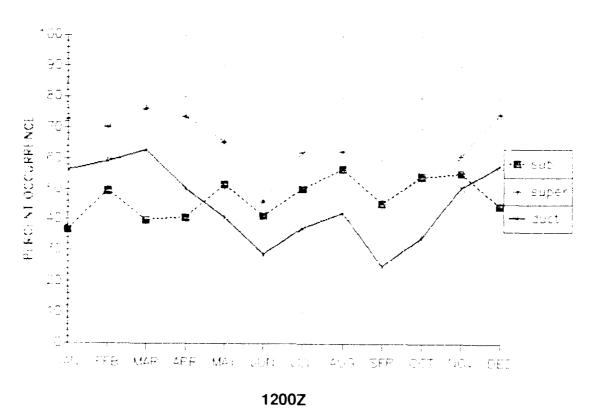
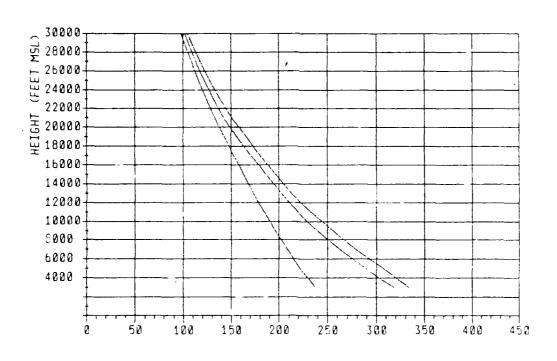


FIGURE B-8-5 B-138

N PERCENTILES

NO DATA AVAILABLE

N (N-Units) 0000Z



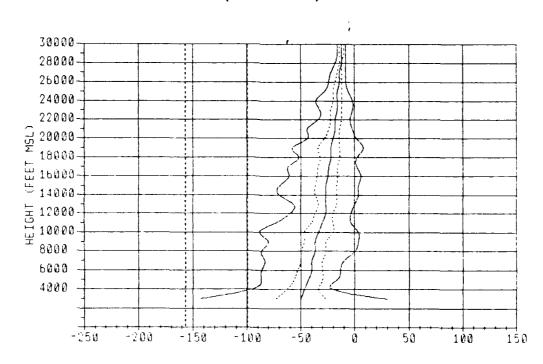
N (N-Units) 1200Z

FIGURE B-9-1-A B-139

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-9-1-B B-140 SAN JOSE WET SEASON

NO DATA AVAILABLE

0000Z

HGT PT HGL	1		ENTILES		000	!			H PERCEN			11	PERCENT		
PT MUL	1% 	10%	561	90x	991	1 - • -	13	10%	56%	90%	99%	11	DUCT I	SRLR :	808
SPC-2000	1248.97	318. 36	325. 56	332. 25	224. 94	1 -	203. 34	-67. 50	-50.00	-4.17	81.25	11	1.6	5.6	9. 2
2000-3300	1236. 34	311.41	320. 88	328. 38	334. 56	1 -	1 86 . 60	-63. 33	-50.00	-25. 00	41.56	1.1	3. 8 1	9.3 1	10. 9
3500 - 40 00	1234. 65	303. 00	313. 00	321.38			-83. 33	-66.66	-50.00	-33. 33	-13.69	1.1	0.1 (●. ● I	9. 6
4000-4500	1230.86	295. 00	303. 36	314.56			-93.75	-62. 50	-47. 91	-33, 33	-20.63	1.1	0.01	1.0	9. 1
4500-5000	1227.00	267.19	298, 25	300.19	314.76		-91.66	-60. 41	-45. 63	-33, 33	-19.92	11	0.3 ;	1.5	0.4
3000-6000	1221.00	275. 25	287. 38	298. 66	306. 38	1	-83. 33	-56, 25	-42, 75	-31, 25	-16.66	11	0.1 1	0.8	8. 0
5000-7000	1214.23	262.36	273.66	263.75	290.75		-63. 33	- 52. 66	-40.04	-29. 16	-16.66	11	0.5	1.2	0. 8
7000-8000	1266.16	250. 60	261.56	271.66	277.69	1 -	-83. 33	- 50. 00	-39.58	-29, 16	-10.42	1.1	0.1 i	1.4 1	1.1
1000 - 1000	1201.50	238. 30	249. 10	258, 75	265. 36		-86. 39	-50. 00	-36.71	-26. 69	3. 26	1.1	1.01	1.4	2. 1
9000-10000	1194.82	227. 20	237. 48	245, 30	253. 97	1	-76. 69	-46.74	-33. 33	-23. 44	6. 64	11	0.8 1		2. 4
1000-11000	1149.10	217.10	227. 26	225, 26	242. 40	1	-83. 33	-46.61	-20.07	-20.03	0. 90	11	1.1)	1.2	2. 4
1000-12000		207.10	217. 60	224. 98	220. 70		-66. 66	-29. 97	-29. 95	-19.92	-3. 26	11	0.3	0.9	6. 5
2000-12000		197.80	206. 60	215. 30	220. 20		-60. 02	- 26, 59	-26.69	-19.92	-6.64	- 11	0. 0 i	0.5	1.0
2000-14000		169. 30	200. 48	206. 80	211. 00		-60. 62	-33. 33	-26.69	-16.66	6. 00	1.1	0.1 (8.5 1	2. 0
1000-15000	1166.60	180. 40	192. 20	196. 50	20 2. 17	1 -	-66. 66	-36.71	-26. 56	-16.66	3. 39	1.1	0.5 1	9.7 1	3. (
1000-15000	1161.60	172. 90	104, 20	190, 26	194, 20	• • -	-66. 66	-36, 71	-26. 56	-16.66	3, 26	- • •	6.3	1.0	3. :
1000-17000		165. 90	176. 30	182. 70	186. 32		-60.02	-34, 51	-20. 30	-16.01	6. 02	- ; ;	0.1	0.7	3.
7000-10000		150.70	166, 50	174.30	176.00		-57.96	-33, 94	-23. 94	-15. 94	0.00	- 11	0.1	6.3	2.
1000-19000		151.80	160.60	166. 90	170.50	ŧ	-58. 84	-31.97	-22. 03	-13.94	7. 65	11	1.1	0.0	4. (
PO00 - 20000	1140.60	145. 46	153. 10	159, 00	162. 40	1	-48. 84	-30. 00	-21. 93	-13. 78	2. 03	1.1	0.1 I	8.4	2. (
1000-21000		139. 98	146.60	152. 20	155. 50		-46. 01	-26. 01	-20.00	-12, 96		- • •	 -	<u></u>	
1000-22000		134. 90	140.70	145. 60	148. 92		-40.00	-23. 98	-10.04	-13. 94	0. 90 -1. 9 5	11	0.01	0, 0 1 0, 3 1	2. : 1. !
2000 - 22000		120.20	125, 20	129. 88	142. 79		-32. 93	-22. 83	-17. 96	-12. 03	-2. 03	11	0.0	0.0	1.6
1000-24000	1122. 50	125. 40	129. 66	133. 90	136.60		- 33. 96	-20.00	-16.01	-12.03	-2.94	11	0.1	0.1 1	2.
1000 - 25000	1118.30	120.00	124. 60	128. 10	130.50	1	- 32. 03	-20.00	-16. 61	-11.95	-2. 03	1.1	0.3 I	0.6	2.
						- • -						- • •			
3000 - 26000 1000 - 27000		116. 70 112. 70	119.60	122.90	125. 29		-23. 94 -22. 9 3	-18. 64	-14.06	-11.95	-7.97	- 11	0.0	0.1	•.
7 000 - 27000		100.30	110.98	113. 30	115.40		-22. 03 -20. 08	-16.01 -16.01	-13.96 -13.96	-11.95 -11.95	-7, 9 7	11	0. 0 1 0. 0 1	0.1	0. 1 0. 1
1000 - 25000		104.70	106. 70	106. 86	110.30		-17.96	-14.06	-12.03	-11.95	-8. 03	- 11	0.0	0.0	•.
1000 - 30000		101. 20	103.00	104. 90	166. 20		-16. 01	-13.94	-12.03	-10.00	~18.00	- ; ;	5. 5 i	9. 0	.
	- •					- • -									
9000-21000 1000-22000		97. 96	99. 50	101.20	102. 30		-14. 96	-12. 63	-11.93	-18.00	-7.97	1.1	●. ● 1	●, ● 1	●. €
1000 - 72000 2006 - 72000		94. 40 90. 90	96. 00 92. 50	97. 60	98.76		-27. 96	-12. 63	-11.95	-10.00	-8. 65	11	●, ●	0.0	•.:
2000 - 33000 2000 - 34000		87. 88	92. 30 89. 18	94, 10 90, 40	95. 96 91. 29		-12. 03 -21. 95	-12. 9 3 -11. 9 3	-18.00 -18.00	-10.00 -10.00	-7. 9 7 -7. 9 7	11	•. • !	0.0	•.
4000 - 35000		63. 60	86. 30	87. 48	88. 98		-23. %	-11.95	-10.00	-10.00 -7.97	-7. 97 -7. 97	11	9. 0 1 9. 0 1	0, 0 ; 8, 0 i	•. •
									- 14. 00	-//	-///		₩. ₩	. .	•. •

1200Z FIGURE B-9-1-C B-141

THICKNESS STATISTICS

NO DATA AVAILABLE

00002

: BASE I			DUCT	rg Ercentil	.29	1	9RL: THE P	RS ERCENTIL	.23		NORM THE F	AL ERCENTI		SUB THE PERCENTILES					
PT HSL	ı	xpro	10%	561	90 x	NFR9	10%	50X	26 X	ı	xpro	10%	50 X	90 x	1	xfre	10%	50 X	90 X
28FC-3000		1.6	150	230	426	5.6	197	230	525	• - · i	86.3	5052	32252	32252	1	9. 2	197	295	394
2000-3500	1	2.7	167	266	315	5.3	98	266	376	1	34.5	3964	31924	32189	i	4. 6	187	266	287
2500-4000	1	D. 0				0.2	492	738	984	ı	1.3	335	31333	31599	1	0. 1	295	295	295
4000-4500	- 1	●. ●				0.8	295	394	787	1	0.3	3740	36742	30939	1	•. •			
4500-5000	1	●. 3	295	295	295	0.9	90	246	446	1	4.3	3216	21917	30447	ı	0.4	197	295	295
3000-6000	1	0.1	197	197	197	0.2	591	689	787		8. 6	787	11561	30053	1	0, 0			
6000-7000	1	0.4	197	295	492	1.1	118	394	787	ı	1.3	98	7936	28577		0. 8	96	394	1161
7000-8000	1	0.1	98	74	76	1.1	207	443	778	•	1.8	3022	27199	27790	1		197	1883	1863
8000-7000	1	1.0	78	197	227	1.1	98	295	768	1	2.5	98	6004	26667	ı	1.5	96	787	2087
9000-10000	1	Ø. 8	197	197	492	0.5	197	293	287	ł	1.8	98	6824	25466	1	1.1	98	197	591
10000-11000	1	1.0	98	295	492	1.2	98	197	374	1	5.9	404	24197	24965	1	2. 1	98	344	689
11000-12000		0.3	98	295	394		98	295	649	ı	1.5	98	3150	23656	1	0. 9	96	295	1683
12000-13000	1					0.4	197	246	492	ı	1.3	1280	22622	22966	1	8.7	76	344	1476
13000-14000	1	0.1	197	197	197	6.5	78	197	295	ı	1.5	98	4364	21962	1	1.6	98	443	994
14000-15000	1	●. 5	76	56	295	0.7	98	197	295	1	3. 5	96	9170	20099	1	3. 0	98	344	984
ASSES-16000		0.3	98	94	98	6.9	98	197	295		3. 3	138	19128	19817	1	1.9	98	623	1896
16000-17000		0.1	164	164	164	0.5	98	164	164	i	2.5	164	16645	18781		2.5	164	492	1394
17000-18000	1 1	0. 1	164	164	164	0.3	164	164	164	ı	2.9	1116	17225	17861	1	0.9	164	328	656
10000-19000		1.1	164	154	164	1	164	164	164	1	4.8	3951	15912	16240	1	4.7	164	492	820
19000-20000	1	0.1	164	164	164	0.4	164	164	328	1	2.9	673	15256	15748		1.7	164	738	1083

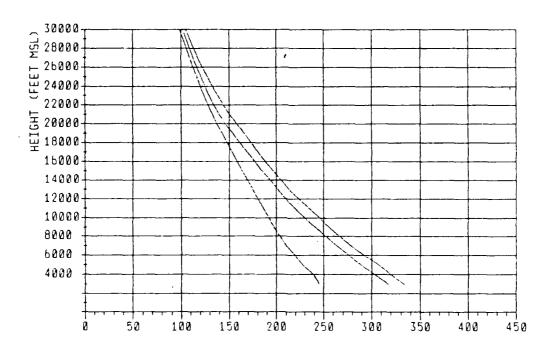
1200Z

FIGURE B-9-1-D B-142

N PERCENTILES

NO DATA AVAILABLE

N (N-Units) 0000Z



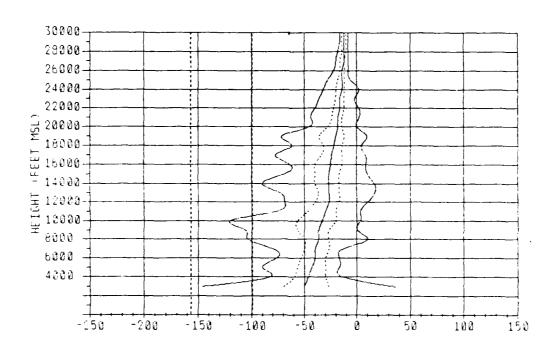
N (N-Units) 1200Z

FIGURE B-9-2-A B-143

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-9-2-B B-144

NO DATA AVAILABLE

0000Z

HGT PT MBL	i i 1%	N PERC	ENTILES XOC	903	99x	1 1%	DMD 10%	H PERCEN	TILES 98%	99x	11		OCCUR!	
SPC-3000	1293.89	316.21	324. 56	331.75		-226.75		-54. 16	0. 66	56, 25	11	3,7 (9.7	
2000 - 3500	1245. 51	308. 26	319.44	327.87		-156. 25		-50.00	-22. 91	52. 86	1.1	2.7 (11.7	
2500 - 4000 4000 - 4500	1234, 55	300. 06 292, 75	311.75 304.88	321.25 314.50		-89.56	-62, 50 -60, 41	-47, 91 -45, 8 3	-29, 16 -28, 16	-12, 50 -12, 50	11	8. 8 I	1.2	
4500-5000	235. 67	245. 69	290. 06	344. 19		-90.44		-43. 75	-29. 16	-12. 50		1.6	0.6	1. 2
5000-6000	1224.46	274. 25	267. 36	294.00	395.50	-87, 50	-58. 33	-43.75	-29. 16	-16. 55	-++	8.2 1	1.3	1. 0
5000-7006	1215.19	260, 36	274. 56	283.79		-75. 86	-52.06	-39. 58	-29, 16	-14.58	1.1	6.4	1.0	9. 6
7000-8000	1206. 96	247. 31	262. 86	271.75		-03.33	-30.00	-39. 58	-27. 84	-12.50	1.1	0.4 1	1.2	
5000 - 1000	1202.02	234. 30	250. 70	250.06		-100.00	-50. 00	-36.71	-25. 🗪	13. 28	1.1	1.9 1	2.3	
7000-10000	1 193.77	222. 36	238. 60	248. 00	253.78	-106.64	-53.36	-36.59	-23.44	8. 98	-11	1.5 (2.7	2. 3
10000-11000		209. 60	227. 40	236. 90	243. 15		-53. 25	-33. 33	-20.05	3. 26	1.1	0.0 1	2.7	
11000-12000		190.55	216. 90 287. 70	225. 86 215. 48	231,78		-43. 36	-30. 97	-19.92	3. 39	1.1	0.4	1.2	
12000-14000		182.80	199.36	206.60		-73.30 -73.30	-36, 71 -36, 59	-26. 69 -26. 69	-16.66 -16.66	6. 77 17. 77	11	8.2 : 8.4 :	1.2	
14000-15000		174.78	190.88	136.18		-85,71		-26.69	-1F 66	6.64	- 11	0.8	1.9	
						•					- • •			
13000-16000		167.80	182. 36	190.00		-79.65	-39. 97	-26. 36	-16. 66	13. 24	1.1	0.4 1	1.2	
16000-17000		161. 30	174. 36	182. 41		-67.96	- 36. 01	-23. 98	-13.98	6. 64	1.1	0. 6	1.4	
17900-14000		154. 90 148. 50	166.30 158.40	174.18 155.48	177. 98 178. 56		-33, 98 -33, 98	-22. 03	-13.94	6. 02	11	•. 4	0.6	
19000-20000		143.00	150.60	156. 09	162.14			-21.95 -26.96	-13. 94 -13. 94	12. 03 -2. 03	1.1	1.0 t	1.8 I	
							-J2. U J	-20. 00	-13	-2. 03	- 4 4			4. 0
20000-21000	1135. 50	136. 20	144. 00	151. 30	154. 90	-46.01	-26.01	-18.04	-13.94	2. 03	1.1	0. 0 1	6.4	2. 4
21000-22000	1131.36	133. 50	138. 36	145. 00	148. 50	-36.66	-23. 98	-17.96	-13.94	9. 90	- 11	9.2	8. O 1	2. 5
22000 - 23000		129. 00	133. 65	139. 00		-48.00	-21,95	-16. 61	-12. 03	-1.95	1.1	0. O I	6. 6	
23000-24000		124. 20	127. 90	133. 👀		1 -31,95	-20,00	-15. 74	-11. 93	0. 60	1.1	0. 0 i	● . ● □	
24000-25000	1116.10	119. 90	123. 00	127. 50	130.30	-31.15	-20, 00	-13. 90	-11. 93	-2, 83	11	9. 0 1	9. 6	2. 7
25000 - 26000		116.00	116.70	122.40	124. 60	-22. 63		-13. 90	-11.95	-7.97	11	0. 0 I	9. 0	
26000-27000		112. 10	114. 66	117.88	119.76			-13. 96	-11. 95	-7. 97	1.1	0. b I	●. ● ·	
27000-26000		106.00	110.30	113. 10	115.16		-15, 94	-12.93	-11. 73	-7. 97	1.1	⊕. ♦ 1	0, 0 1	
26000-29000		104. 30	106.30	108.50		-16.01	-13, 96	-12.03	-10.00	-7.97	1.1	0. b	0.0	
27000-20000	77.63	101.00	102.78	194. 60	196.10	-16.01	-13, 98	-11.95	-18. 00	-7. 97	11	9.9 I	0, 9	9. 2
30000-31000		97.70	99. 36	101.00		-16.01		-11. 95	-10.00	-7.97	1.1	●. ● I	0.0	8. 9
21000-32000		94. 48	95. 99	97. 50		-19.51		-18. 86	-16.00	-7. 9 7	1.1	8. G i	●. ●	
32000-33000		90.60	92. 46	94. 00		-12.93		-10.00	-10.00	-7. 9 7	1.1	0 , 0 1		
33000-34000		87.70	89. 06	90.30		-20.00	-11.95	-10.00	-10.00	-7. 9 7	11	0.0	0, 0	
34000-35000	1 88.73	85, 50	86. 48	87, 40	88. 00	-23. 98	-12. 03	-16. 00	-8. 65	-7. 9 7	1.1	●. ● :	●, 6	0. 8

1200Z FIGURE B-9-2-C B-145

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

BASE I			DUCTS THE PERCENTILES			SRLES: THE PERCENTILES :						NORM	AL ERCENT:	11. 89	1	SUB THE PERCENTILES :				
PT MBL	i	XFRO	10%	50 X	90% i	xpro	10%	50 x	90 X	i	x PRG	10%	50x	90 x	. XFRQ	10%	501	90x		
29FC - 3000 3000 - 2500	:	3.7	33 69	223 167	346 i 295 i	9.7 4.5	115	236 197	623 394	!	79.5 29.5	5544 5019	32252 31727	32252 321 89	9.5		230 266	426 / 591		
2500 - 4000 4000 - 4500 4500 - 5000	1	0. 0 0. 2 0. 8	295 295	295 295	295 767	0. 2 0. 2 0. 4	197 98 98	197 98 394	197 98 787	1	2.7 8.2 2.9	2608 1476 3887	31333 1476 14 86 9	31628 1476 30349	0.2 0.0	984 98	9 64 295	984 394		
5000 - 6000 6000 - 7000 7000 - 8000 8000 - 7000 9000 - 10000	1 1 2 3	0. 0 0. 4 0. 4 0. 8	295 197 98 98	295 246 98 295	295 295 296 295	0.0 0.6 1.0 2.3 2.1	98 197 197 98 118	492 394 295 394 295	787 492 689 689 630		1.9 1.2 1.3 2.1 3.7	94 3150 4429 98 630	11352 22442 27199 26363 8022	29817 28971 28985 26983 26988	0.6 0.4 0.6 1.7	98 394 492 118 98	98 541 787 295 197	1575 689 1575 1496 886		
10000 - 11000 11000 - 12000 12000 - 12000 12000 - 14000 14000 - 15000	1	0.8 0.4 6.2 0.4	197 98 295 197 98	295 148 295 197 148	591 197 295 197 197	2.7 1.2 1.6 1.2	98 293 98 98 108	344 394 197 246 246	541 689 492 394 295	1	7.0 2.7 3.1 3.3 5.8	276 98 98 98 98	24394 10532 7825 2165 20112	24945 23636 22504 21490 20691	2.3 2.7 2.7 2.9	98 98 137 96 38	443 689 394 492 394	984 1595 1516 1181 1122		
15000 - 16000 16000 - 17000 17000 - 18000 18000 - 19000 19000 - 20000) () (0.8 6.6 0.4 1.0	98 96 164 164	98 164 164 164	98 164 164 164	1.2 1.4 0.6 1.8	197 98 164 164	246 164 164 164	293 164 164 328	1 1	3.7 3.3 4.1 6.0 2.2	94 794 1198 262 2395	19120 18045 17369 15912 15256	19521 18931 17717 16369 15746	3.7 2.3 1.8 4.1	98 262 164 164	591 829 492 328 829	1260 : 1194 : 968 : 656 : 984 :		

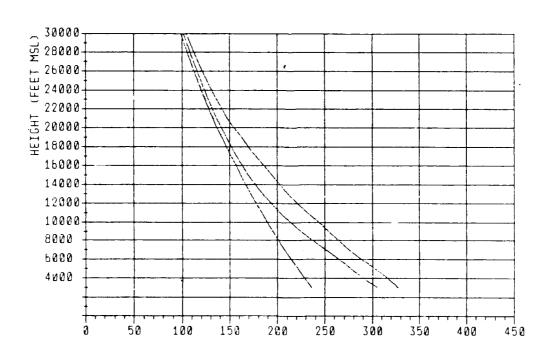
1200Z

FIGURE B-9-2-D

N PERCENTILES

NO DATA AVAILABLE

N (N-Units) 0000Z



N (N-Units) 1200Z

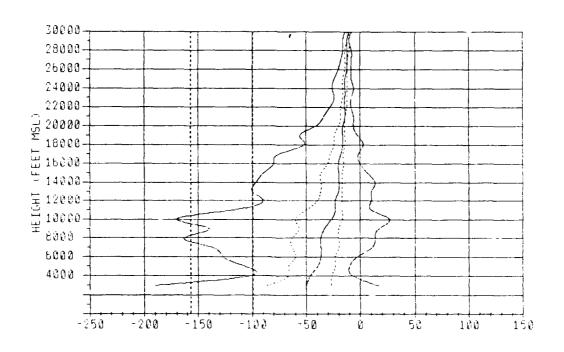
FIGURE B-9-3-A B-147

SAN JOSE DRY SEASON

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-9-3-B B-148

SAN JOSE DRY SEASON

NO DATA AVAILABLE

0000Z

HQT PT H\$L	1 1%	N PERC	ENTILES Sex	90 X	99%	1 1%	DMD 18%	H PERCEN 50%	TILES 90%	991	11	PERCENT DUCT I	OCCURRE SRLR	SUB
SPC-3000 3000-3500	1241.50	306. 87 292. 36	313, 69 300, 50	323.37 319.25		-246.77 -213.29	-114.37 -95.83	-36. 25 -52. 66	-12.59 -23.30	68. 52 31. 25	11	4.8	7.7	5. 6 7. 0
3500~4000	1234, 40	293. 56	300, 19	311.69		-120. 83	-72. 91	-47.91	-27.00	-0.31	- ; ;	0.4	3.3	1.6
4000-4500	1238. 61	275.14	292. 88	205. 00		-100.00	-66, 66	-45. 83	-27. 98	-6. 25	1.1	e. 3 i	1.5	8. 9
4500-5000	1226, 94	267. 66	285. 84	294. 56	310.26	1-112.50	-66, 66	-43.75	-26.69	-4. 96	11	1.0 :	3. 2 1	1.5
5000-6000	1221.00	252. 75	275. 56	289. 25	301.07		-65. 49	-37.56	-23. 36	-18.63	1.1	1. 8 i	3.7 1	€. 3
6000-7000	1213.96	237.36	263. 25	277. 25	287.13		-63. 82	-37.50	-22, 91 -29, 83	0. 00 13. 28	11	1.7 i 3.5 i	4.7 1	1. 6 2. 6
7 500 - 2000	1207.20	224. 36 212. 86	250. 00 235, 49	266. 69 255, 40	274.75		-66, 66 -63, 41	-36, 59 -33, 33	-20.03	13. 26	11	4.2	8.8	4. 9
9000-10000	1194. 29	202. 20	222. 40	243.11		-155, 64	-56, 64	-33.33	-19.92	20. 65	ΕĹ	3. 5	4. 6	4. 2
10000-11000	1166, 10	194. 46	211, 10	230.70	240.84	-156 77	-60. 02	-26, 69	-16.66	23. 30	11	4.2	7.5	5. 1
11000-12000	182. 20	187.48	200.10	218.90		-109.68	-46.61	-23.44	-16.66	13. 28	4.1	1.5 i	3.7	3. 5
2000-12000	1176.79	181.00	191.20	209. 50	218.60		-36.71	-23. 30	-16.66	13.28	11	1.4	2.2 i	3. 4 3. 4
1 3000 - 1 4000 1 4000 - 1 5000	1171.00	174. 50 160. 50	182, 59 174, 79	200. 48 191. 30		- 96, 74 : - 93, 36	-36,71 -36,71	-20.05 -20.05	-16.66 -16.66	9. 94	11	1.2	3.6	3. 7
	- •					•					- • •			
15000-16000 16000-17000	1150.30	162. 98 157. 60	167. 90 161. 80	183. 98 175. 18	191.44		-33, 33 -30, 00	-20.05 -18.04	-16.66 -15.94	6. 64 -4. 86	11	1.6 1	2.5 2.3	3. 1 1. 5
17000-17000	1150.30	152. 20	155.78	166. 10		-66.58	-26.01	-17.96	-13.98	-1.95	- i i	0.4	1.2	1.7
18000-19000	1144. 50	146. 40	150.00	150. 40	166. 90		-23. 94	-16. 01	-13.90	2. 93	1.1	0.1	1.0 1	2. 5
19000 - 20000	1139. 90	141.50	144. 46	151.10	158.70	-47.96	-22. 03	-16. 01	~13.98	-6. 82	11	0.0 i	8.2	0.4
20008-21008		136. 96	139.60	144. 53	151.90		-20, 00	-16.01	~13.96	-6. 02	1.1	0.0 i	0.2 I	ø. 5
21000-22000		132.50	135, 19 139, 79	139. 90 133. 96	146.05	-31.95	-18.04 -16.01	-14. 66 -13. 98	~13.98 ~12.63	-8.05 -10.00	11	8.8 i	0.0 i	Ø. 7 Ø. 3
22000 - 23000 23000 - 24000	1126.90	128.30 123.70	126, 19	129. 18	134. 25		-16.01	-13.98	-11.95	-7.97	- 11	9. 0	0.8	8.7
24000 - 25000		119.50	121.60	124. 30	128. 00	-25.97	-16.01	-13.98	-11. 75	-7.97	1.4	0.0 I	0.1	1.0
25000-26000	1114. 34	113.70	117. 79	119.98	122.55	-26.00	-14.06	-13.96	-11.95	-7. 9 7	11	0,11	0, 0	Ø. 3
26000-27000	1110.64	112. 66	113. 80	115. 90	118.93	-18.04	-12.98	-12.03	~11.95	-7.97	1.1	Ø. Ø 1	8. Ø I	Ø. 1
27000 - 28000		107.90	109.86	111.98	114.48	-17.96	-13. 98 -12. 9 3	-12.03 -11.95	~10.00 ~10.00	-8.95 -10.00	11	9.0 i 8.0 i	6. 6 i	Ø. 2 Ø. 1
28000 - 27000 27000 - 30000		101.00	192.69	104. 20		-15.94	-12.03	-11.93	-10.00	-10.00	11	0.0	0.0	Ø. D
30000-21000		97.80	99. 30	100.60	102.00	-14.06	-12. 63	-10.00	-19.00	-7. 9 7	11	0, 6 1	8.0	9. 2
31000-32000		94. 56	96. 00	97. 36	90.60	-14.04	-12.63	-10.00	-10.00	-0.05	- 11	0.0	8.0	0.2
32000-33000		90. 90	92. 50	94. 10	95. 00	-13.96	-12.03	-10.00	-10.00	-7. 97	1.1	0.0 1	0.0	0.0
33000 - 34000 34000 - 35000		87.80 85.60	89.10 86.50	98.56 87.56	91.38 88.88	-29, 41	-12.03 -11.95	-10.00 -10.00	-10.00 -0.05	-7, 97 -7, 97	11	8.0 i	0.0 I	9. 9 9. 8
										-,,				

1200Z FIGURE B-9-3-C B-149

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

				DUCT				SRL					HORM					202		
BAS	3E	ŧ		THE PI	ERCENTIL	32.9		THE P	ERCENTIL	29	1		THE P	ERCENTI	LES	1		THK P	ERCENTI	LES
PT I	19L	J	x PRG	10%	50 X	90%	XFRO	10x	36X	90 X	!	XFRD	10%	50%	9 0 %	1	MPRO	162	50 X	901
29FC-	2000	1	4. 8	131	230	345	7.7	131	328	623	1	82.6	2986	12336	32252	1	6. 6	230	324	623
2000 -	2200	- 1	2.9	69	266	364	6.4	98	266	787	1	28.7	2756	18468	32189	ı	1.7	98	266	1437
3500-		•	9. 1	98	98	98	1.1	98	492	925	i	4.3	335	9006	31599	i	0. 9	94	148	984
4000-		- :	0.3	94	293	492	6. 4	98	246	492	:	1.5	1476	12562	31007	÷	0.3	98	394	787
4500 -		- ;	1.6	78	295	492	2. 9	98	295	709		5. 1	3888	30250	38376		9. 7	197	295	492
4300-:	2000	. !	A. 0	70	293	472	2. 7		293	/ 4 3		3. 1	3000	30230	303/0	٠.		197	293	
3000-0			8.4	98	295	492	1.7	98	295	689	1	3. 5	2579	14875	30053	;	0.2	295	1063	1878
6000-7		i	1.5	98	344	591	4. 0	98	492	689	i	2. 8	1161	12336	28902	i	1.5	137	886	1772
7000-		- :	2. 9	96	295	394	6. 7	98	394	709		6. 3	313	27199	27888		1.5	167	886	1535
		!									1									2008
8000 -		1	3. 6	197	394	492	6. /	98	344	287	ı	9. 2	482	26215	27012		2.3	157	984	
7000 - 2	1 0000	,	2. 7	76	295	492	3. 4	78	293	591	1	5. 5	305	25477	26618	1	2. 3	98	591	984
10000-			4. 0	98	246	394	7.2	98	295	391	-	13.6	984	24443	25034	1	3.4	98	492	1555
11000-		•	1.2		295	472	3.4	94	295	394	:	5. 5	98	23360	23951	:	2. 1	98	492	1890
				116															649	1585
12000-		1	1.2	98	148	295	1.9	98	197	394	,	3.6	98	6135	22966	!	2. 3	98		
12000-		ı	1.2	90	197	295	3. 3	98	197	295	i	5. 0	98	21244	21962	•	1.7	98	689	1266
14000 -	7 2000	ı	1.2	98	197	295	3. 3	98	148	295	ŀ	5. 6	98	20260	20801	•	2. 2	98	394	1014
12000-		^ . -	1.5	98	197	197	2.4	98	148	295	•-	5. 2	794	19325	19915	• -	2.0	98	443	1106
											:					:				1476
70000 -			1.1	102	164	328 1	2. 1	100	164	324		3. 5	3035	18373	18881	•	1.0	326	492	
17000-			9.4	164	164	320 i	1.1	164	164	324	1	2. 4	4593	17553	17881	,	1.3	164	820	1263
10000-		- 1	0. l	164	164	164	1. O	164	164	492	1	3. €	11434	16876	16585	1	1.0	164	492	853
19000-2	20000	;	9. B			1	●. 1	164	164	154	1	8.9	2625	15592	15748	1	8. 2	820	902	944

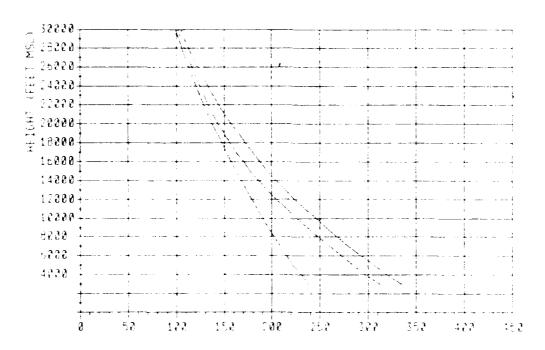
1200Z

FIGURE B-9-3-D

B-150

NO DATA AVAILABLE

N (N-Units) 0000Z



N (N-Units) 1200Z

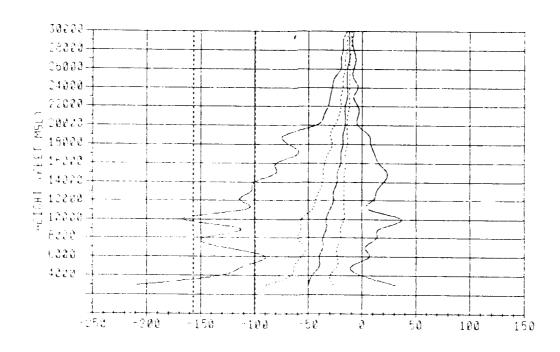
FIGURE B-9-4-A B-151

1:

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-9-4-B B-152

NO DATA AVAILABLE

0000Z

- NOT	1		ENTILES			I .		H PERCEN	TILES		6.1	PERCENT	OCCUR	RENCE (
PT MSL	1 1%	10%	50 X	90 x	99X	1 1%	10%	50%	90 X	99 x	11	DUCT I	BRLR	SUB I
SPC-3666	1260.41	306.41	321.00	231.74		1-318.39		-56, 25	-14.56	90. 56	11	6.7	9. 8	. 7.31 i
3000 - 3500 2500 - 4000	1239.30	299, 22 289, 19	315.56 307.50	328. 00 320, 87		-246.17 -139.73	-116. 66 -72. 91	-50. 80 -45. 83	-23. 30	39. 84	11	10.1	18.1	
4000-4500	1235.13	289. 37	300.50	314. 96		1-132.58	-66.66	-45. 83	-27. 98 -27. 98	14. 56 0. 06	11	1.2 (3.3 i	
4500-5000	228. 36	272.06	293. 69	364. 00		-120. 53	-65. 26	-43. 75	-27.00	~2. 95	ii	1.4	5.0	1.0 I
3000-6000	1222.21	256, 36	283.56	297, 27	305, 86	1-186. 25	-60.41	-39, 38	-22. 91	-6. 25	- • • - 	0.2	3. 2	,
5006-7006	1215.27	244. 20	271.50	263. 69		1-116.66	-56. 25	-39. 56	-22. 91	19. 42	1.1	1.01	2.7	
7000-8000 8000-9000	1209.06	230, 14 217, 50	259. 56 246. 78	271.56 259.56		-139.72 -143.37	-56, 25 -68, 41	-37.50 -36.59	-22. 91 -29. 85	3. 39 14. 58	11	3.8 i 3.6 i	5.3	
7000-10000	1193.56	205. 70	234. 48	247. 20		-113.24	-53. 38	-33.33	-19.92	27. 99	H	2. 3	3. 2	5. 6
10000-11000	1189.30	196.78	233.60	236.18	244. 48	1-151.65	-53.36	-30, 67	-13, 41	20, 05	- 4 4 -	4.6.1	6.4	
11000-12000	1183.27	189.70	212.50	225. 80	232. 41	1-116.66	-46.61	-29, 95	-16.66	13. 28	11	1.6	3.4	3.9
12000 - 13000	1177. 80	182.60	202. 36	215.60		-108.33	-43. 23	-26.69	16.66	16.66	1.1	1.6	3.7	
13000-14000	1172.28	175.80 169.50	192.70 183.20	206.00 197.10		-186.54 -96.74	-39. 97 -36. 71	-26.56 -23.30	-16.66 -16.66	13.87 16.66	11	2.1	3.2	
	• • • • • • • •					•					- • • -			
15000-16000		163. 80	175. 00	188.78		-74.96	-32.33	-23. 30	-16.66	26. 69	1.1	8.2 1	2.9	
15000-17000	1155.95 1156.66	158. 26 152. 78	167.78	181. 00 172. 70		1 -73.98 1 -66.81	- 34. 96 - 38. 88	-21.95 -20.00	-13. 94 -14. 96	18. 61 6. 62	11	0,5 i	1.6	
18000-19000	1145.18	147.00	153. 10	164. 90		-71.95	-28. 64	-18.64	-13.96	11.35	11	8.7	2.1	
19000-20000	1140.30	142.00	146.70	157. 00	161.62	- 54, 53	-28. 04	-17.96	-13.98	-1.95	11	0.0 i	8.5	
	1135. 80	137. 20	141.36	150. 20		-40.00	- 23. 98	-16.01	-13.94	-3.94	11	6. 6 i	6.5	•
21000-22000	1131.40	132. 80	136. 25	144. 85		- 35. 95	-22. 03	-16.01	-13.98	- 3. 98	1.1	8.0	8. 0	
22000 - 23000 23000 - 24000	1127.20	128, 55 123, 98	131.60 126.80	138.05		-32.03	-20.00 -18.04	-14. 06 -13. 98	-12. 93 -11. 93	-4. 84 -6. 82	11	0.0 I	8. S	
24000-25000	1118.50	119.70	122. 20	126.64		-27.96	-17. 96	-13.96	-11.95	-4. 01	H	0 . 0 i	0.0	2.1
25000-26000	1114.70	115.00	118.10	121.70	124. 60	-22. 01	-16. 01	-13.98	-11. 95	-7. 9 7		0.0 1	9.6	,
26000-27000	1110.90	112.10	114. 20	117. 10	119.00	-20.00	-16.61	-12.63	-11.95	-7.97	1.1	0.0	0.0	0.0
27000-25000	1106.80	100.00	110.20	112.70		-18.04	-14. 96	-12.03	~10.00	-6. 02	1.1	0.9	0.0	9.5
28000 - 29000 29000 - 20000	1100.02	104.40	106, 20 102, 76	166.30 164.50		: -18.83 : -15.81	-13. 96 -13. 98	-12. 03 -11.95	-10.00 -10.00	-8. 46 -8. 95	1 1	8.0 I	0. 6 t	0.6 t
	. •					•					- • • -			
20066-21600	96.80	97.78	99. 30	101.00		-14.86	-12.03	-10.00	-10.00	-7. 97	1.1	6.0	9.0	
31999-32999 32999-33999	93.60	94. 50 90. 90	96. 98 92. 58	97.60 94.10	98.79	-20.00	-12.03 -12.03	-10.00 -10.00	-10.06 -10.00	-7, 9 7 -7, 9 7	11	0,6 i	0.0 t	0.0 i
33000-34000	87. 90	87.88	89. 10	99. 56		-20.00	-11.95	-10.00	-10.00	-7. 97	11	0.6	9.0	9. 0
34006-35000	84.97	85. 60	86. 50	87. 50	88. 83	-24. 00	-12.93	-10.00	-8. 95	-7.97	1.1	0. 0 i	0.0	0.8

1200Z FIGURE B-9-4-C B-153

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

BASE			DUCT THE PE	9 RCENTIL	29 1		SRLI THE PI	t9 ERCENTII	LZS	,		NORM THE P	AL ERCENTI	LES	ı		SUB THE PI	ERCENTI	. 29
FT MSL	1	xpro	167	50 X	90% I	XFRQ	78%	50 X	90 x	1	17RG	10X	50 X	90 X	1 1	x pro	10%	30 X	9 0 %
297C-3000		6. 7	22	220	328)	9. 8	98	262	426	· • -	79.2	1706	12730	32252	1	7.3	213	328	722
2000 - 2500	;	6.1	167	266	275	12. 0	90	266	394	H	38. 3	2913	14370	32189	i	3.5	98	266	945
2500 - 4000	ı	1.2	197	492	689 :	1.6	98	197	1683	1	3. 5	846	14600	31628	t	0.5	98	394	689
4000-4500	1	0.2	689	649	689 1	1.6	98	394	787	1	1.6	98	2865	31136	ı	0.5	492	541	59:
4500-5000	1	1.1	197	295	295	3.4	98	492	446	1	7.1	630	14173	38447	1	9. 9	98	246	1673
5000-6000	1	0.0			1	8.7	394	591	591	1	3. 0	3543	29463	29975	1	0.9	394	1280	1575
6800-7800	- 1	1.8	98	295	492	2.3	98	492	768	1	2.7	689	28233	28715	1	0.9	394	787	1280
7008-8000	1	2. 5	98	394	591 I	4.3	98	295	689	ı	3.4	98	1870	27947	1	2.5	98	787	2362
8000 - 9000		1.8	96	394	492	4.4	168	394	876	;	7.3	96	16681	26953	1	2. 1	98	787	1535
3000-10000	1	1.6	76	197	394	2.3	76	443	768	1	4. 1	391	8336	2591 9	!	3. 2	98	591	1033
19000-11000		4.4	98	197	394	6. 0	98	295	492		14.0	98	6726	24935	1	3. 9	9.	394	1378
11000-12000	1	1.4	98	295	394 1	3.2	157	295	512	1	4.6	98	4724	23832	į.	3. 0	96	649	1624
12000-13000	1	1.4	98	246	295	3.4	98	197	512	1	6.7	295	22179	22966	1	3. 2	78	492	1339
13000-14000	•	1.8	98	197	295 1	3. 🗨	98	197	394	1	5. 5	96	20996	21962	1	3.4	96	689	1316
14000-15000	1	1.1	78	295	295	3. 0	78	148	394	F	6.4	76	20210	20801	1	3. 0	76	689	1339
13000-16000	1	0.2	197	197	197	1.4	197	246	295		5. 5	906	19620	19817	1	4.1	98	525	1987
16000-17000		O. 2	164	164	164	1.4	131	164	492	1	4.6	2477	18619	18931	i	2. 1	164	656	1640
17900-18000		6. 5	164	164	164	0. 9	164	164	328	1	2.5	164	1230	17783	1	1.6	492	984	1464
18000 - 19000	t	8.7	164	164	164	2. 1	164	164	328	1	5. 1	4757	16076	16733	ı	2.8	164	374	1214
15000-20000	1	Ð. Ð				0.5	164	246	328		1.6	184	15420	15748	1	0.9	164	472	784

1200Z

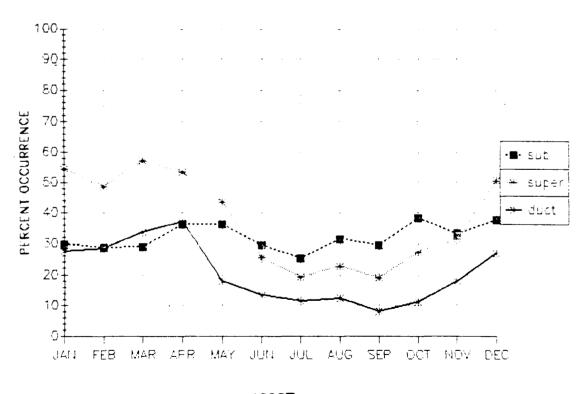
FIGURE B-9-4-D

B-154

AP PERCENT OCCURRENCE FREQUENCY

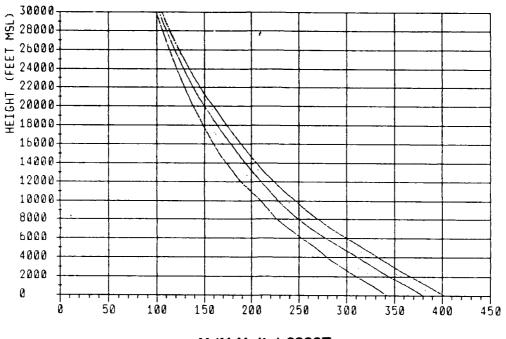
NO DATA AVAILABLE





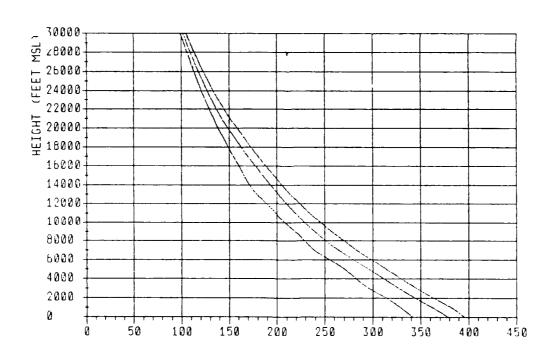
1200Z

FIGURE B-9-5 B-155



7

N (N-Units) 0000Z

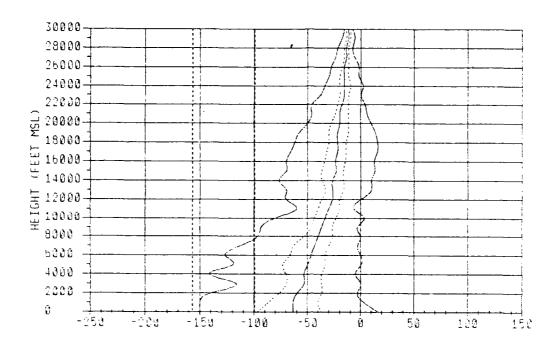


N (N-Units) 1200Z

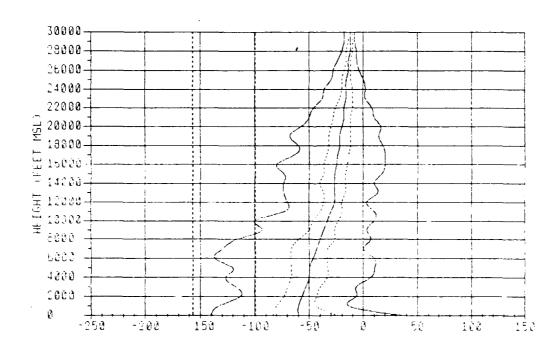
FIGURE B-10-1-A

HOWARD WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-10-1-B B-157

HOWARD

WET SEASON

not FT MBL	1%	N PERCE	NTILES SON	90%	95X	1%	DND 10%	H PERCEN	TILES BOX	99%	/ /	PERCENT DUCT :	OCCURR ERLR	
SFC-500 500-1000 1000-1800 1800-2000 2000-2800 2500-3000 3500-3600 4500-4500 4500-8000	:304.22 :340.32 :330.74 :323.41 :315.50 :305.67 :296.40 :291.06 :283.59 :276.87	384.19 384.28 344.06 334.28 324.06 314.86 306.06 298.19	386.19 377.56 387.88 358.50 349.19 339.50 330.58 3322.75 3314.75	387.52 388.50 378.70 389.38 380.06 350.69 341.50 333.56 325.56 318.00	396.97 386.69 377.36 369.75 359.38 349.65 341.24 332.88	1-270.72 1-145.83 1-141.12 (-154.16 1-159.3 1-125.00 1-127.00 1-127.00 1-139.50 1-143.75	-114.58 -93.75 -88.33 -83.33 -79.16 -72.91 -88.68 -70.83 -72.91	-84.58 -64.58 -92.50 -60.41 -50.41 -58.25 -54.16 -52.08 -52.08 -50.00	-18.75 -39.58 -41.68 -43.76 -39.59 -37.50 -36.41 -30.41 -35.41	160.26 14.04 4.17 -6.28 0.00 1.68 -4.17 -4.17		11.5 : 1.4 : 1.5 : 2.0 : 1.0 : 0.7 : 1.4 : 1.2 :	18.8 : 9.5 : 6.4 : 5.6 : 5.3 : 3.7 : 2.1 : 3.1 : 6.6 : 6.6 :	2.2 : 1.9 : 1.4 : 1.4 : 1.6 : 1.2 :
5000-8000 8000-7000 7000-8000 8000-8000 9000-10000	:265.50 :252.00 :238.70 :226.20 :216.10	263.06 280.80 238.20	293.06 276.56 292.06 248.50 238.60	306.56 290.25 275.19 280.58 247.10	298.00 283.08 288.88	:-122.91 :-133.33 :-112.50 :-93.87 :-96.61	-70.83 -86.88 -80.41 -53.38 -46.81	-50.00 -45.83 -43.36 -39.58 -36.59	-33,33 -33,33 -30.07 -28.69 -28.56	2.08 0.00 -2.80 0.00 0.00	11	1.8 : 2.0 : 1.8 : 1.0 : 0.6 :	6.1 : 5.3 : 3.6 : 2.6 :	3.2 2.4 2.2
1000-11000 11000-12000 12000-13000 13000-14000 14000-15000	:186.10 :186.40 :178.60	207.90 199.00 190.40	228.60 217.10 208.20 199.90 191.50	235.60 225.20 215.70 207.10 198.80	211.60	-76.69 -63.28 -70.05 -70.05 -76.69	-43.36 -39.97 -36.59 -33.33 -36.71	-30.07 -29.95 -28.69 -26.69 -26.56	-23.30 -20.05 -19.92 -16.66 -16.66	3.28 -3.39 8.84 10.03 13.41	11	0.7 : 0.5 : 0.4 : 0.5 :	1.5 : 0.9 : 1.0 : 1.2 : 1.6 :	1.9 :
15000-16000 16000-17000 17000-18000 18000-19000	1188.30 1192.40 1148.30	167.40 160.30 153.60	193.40 178.10 188.50 181.20 154.30	190,90 183.50 175,20 187,70 180.20	186.95 178.60	-73.30 -88.86 -86.01 -56.01	-36.59 -33.98 -32.03 -30.00 -29.41	-23.44 -23.98 -22.03 -21.95 -21.95	-18.66 -19.94 -13.96 -12.03 -12.03	10.03 16.01 12.03 16.01 6.02	1:	1.1: 0.1: 0.2: 0.4: 0.1:	1.5	5.4 7.6
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1132.40 1128.00 1123.10	136.20 131.30 126.50	148.10 142.30 138.80 131.20 128.00	153.60 147.20 141.30 135.40 12° 50	149.90	: -50.00 : -46.01 : -42.03 : -36.01 : -31.95	-28.01 -23.98 -22.03 -20.00 -20.00	-20.00 -18.04 -17.96 -18.01 -16.01	-12.03 -12.03 -11.95 -11.95 -11.95	9.39 6.02 3.98 1.95 0.00	11	0.1 : 0.0 : 0.2 : 0.3 : 0.2 :	0.3 0.2 0.2 0.1 0.1	5.2
25000-26000 26000-27000 27000-28000 26000-29000 29000-30000	:111.50 :107.40 :103.80	113.70 109.40 108.50	121.20 118.70 112.00 107.60 103.80	124.40 119.40 114.70 109.80 105.70	116.10	-27.96 -24.06 -22.03 -20.00 -16.01	-18.04 -17.96 -16.01 -14.06 -13.98	-18.01 -14.09 -13.98 -13.98 -12.03	-11.95 -11.95 -11.95 -11.95 -10.00	-2.03 -3.98 -6.02 -6.02 -7.97		0.0 : 0.0 : 0.0 : 0.0 :	0.0	1.6 :
3000-31000 31000-32000 32000-33000 33000-34000	93.90 90.40 97.30	98.50 95.10 91.40 88.00 85.70	100.10 96.70 93.00 89.40 86.60	101.90 98.30 94.70 90.90 87.60	95.50 91.50	1 -16.01 1 -20.00 1 -14.06 1 -30.00 1 -30.00	-13.98 -12.03 -12.03 -12.03 -11.95	-12.03 -11.95 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0	

0000Z

HGT FT MSL	1%	N PERC	ENTILES SON	90%	99%	:	1%	DND 10%	H PERCEN	TILES SOX	99×	1:	PERCENT DUCT :	OCCURR SRLR :	
SFC-500 500-1000 1000-1500 1500-2000	:357.97 :340.48 :327.22 :328.37	373.74 365.50 355.56 346.19	383.25 376,19 367.00 357.68	391.69 384.75 376.00 388.75	398.78 391.75 384.18 374.25	:-14:	. 66 3.21	-91.86 -83.33 -81.25 -77.08	-58.25 -60.41 -60.41	10.62 -31.25 -41.66 -43.75	190.67 20.83 -6.25 -8.46	11	4.6 : 1.4 : 1.1 :	14.1 : 6.3 : 4.4 : 3.2 :	4.8 :
2000-2500 2500-3000 3000-3500 3500-4000	:314.88 :305.16 :297.07 :291.03	336.75 326.04 317.69 309.30	348.75 339.38 330.25 322.25	357.75 348.56 339.25 331.25	365.18 356.18 346.38 337.86	!-120 !-110 !-110	2.91	-72.91 -70.83 -88.75	-58.33 -58.25 -54.18 -52.08	-43.75 -39.58 -39.58 -35.41	-4.29 2.09 4.17 2.08	; ; ; ; ; ;	0.9:	2.7 : 2.3 : 2.2 : 2.8 :	1.5 :
4000-4500 4500-5000 5000-8000	:282.19 :278.57 -+	301.08 293.25 	314.56 307.00 294.38	323.58 316.38 305.75	330.00 322.75 312.88	1-131	.58	-88.86 -70.83 -68.66	+50.00 -50.00 -47.91	-33,33 -33,33 	8.33 18.73	1: -++	0.9: 1.6:	3.6 5.6 4.7	4.2
8000-7000 7000-8000 8000-9000 9000-10000	252.95 239.73 227.90 216.60	266.25 253.00 239.90 228.30	278.89 284.00 249.70 237.50	290.19 275.69 260.56 246.90	298.72 282.50 289.00 254.60	1-12	7.08	-88.88 -88.88 -60.02 -50.00	-45.83 -43.75 -39.97 -36.59	-33.33 -31.25 -26.69 -23.44	10.42 3.39 10.03 9.90	11	2.8 : 2.3 : 1.9 : 0.5 :	8.4 5.7 5.2 2.6	3.7 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	194.00 1185.03 1178.30	218.00 208.10 199.10 190.00 181.40	226.90 217.20 208.10 199.70 191.30	235.70 225.40 215.80 207.10 188.40	231.90 221.30	: -6	3.66 3.66	~46.74 ~39.97 ~36.71 ~36.71 ~39.97	-33,33 -29,90 -26,69 -26,69 -26,69	-20.05 -20.05 -19.92 -16.66	6.77 10.01 3.39 13.28 15.75	11	0.8 : 0.2 : 0.4 : 0.9 :	2.6 : 1.2 : 1.4 : 1.5 : 1.6 :	3.0 : 3.2 : 5.0 :
15000-16000 16000-17000 17000-18000 18000-19000 18000-20000	:158.40 :152.70 :146.80	173.30 186.20 159.30 152.60 146.10	163.10 175.80 167.60 160.20 153.00	190.30 182.60 174.20 168.62 159.00	177.82 170.30	: -76 : -6:	.04	~34.71 ~36.01 ~33.88 ~32.03 ~31.95	-26.56 -23.96 -22.03 -21.95 -21.95	-18.66 -13.98 -12.03 -11.95 -12.03	16.69 20.62 16.38 17.98 13.99	11	0.9 : 0.8 : 0.2 : 0.8 : 0.2 :	1.3 1.7 0.9 0.9	7.1 : 8.1 : 8.9 : 10.6 :
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1132.30 1127.90 1123.00	140.40 135.40 130.60 128.60 121.10	146.60 140.70 135.30 129.80 124.70	152.20 145.60 139.60 133.90 128.20	142.80	: -40 : -40 : -31	3.01 3.04 3.01 3.19	-28.04 -28.01 -23.98 -21.95 -20.00	-20.00 -18.04 -17.96 -18.01 -18.01	-11.95 -10.00 -10.00 -10.00 -10.00	10.00 11.95 6.02 2.03 0.00	11	0.1 : 0.1 : 0.0 : 0.1 : 0.0 :	0.4 0.5 0.2 0.2 0.1	6.5 5.5 4.6
25000-26000 26000-27000 27000-28000 28000-29000 29000-30000	1111.30 1107.07 1103.50	118.90 112.60 108.50 104.70 101.20	120.00 115.50 111.00 106.70 103.00	123.20 118.40 113.70 108.80 105.00	115.60	: -2° : -2°	7.96 7.96 3.03 9.04 7.96	-18.04 -17.96 -18.01 -14.06 -13.86	~15.94 ~13.98 ~13.98 ~12.03 ~12.03	~11.95 ~11.95 ~11.95 ~10.00 ~10.00	-1.95 -5.94 -6.02 -7.97 -7.87	11	0.0 : 0.0 : 0.0 : 0.0 :	0.1 0.1 0.0 0.0	2.8: 1.1: 1.2: 0.4:
30000-31000 31000-32000 32000-33000 33000-34000 34000-38000	93.80 90.20 87.20	97,90 94,60 91,00 97,80 65,60	99.50 96.10 92.60 89.20 86.50	101.20 97.80 94.30 90.60 87.40	95.10 91.20	: -10	8.01 8.01 3.65 7.05	-12.03 -12.03 -12.03 -12.03 -10.00	-11.95 -11.95 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 :	0.0

1200Z FIGURE B-10-1-C B-158 HOWARD WET SEASON

THICKNESS STATISTICS

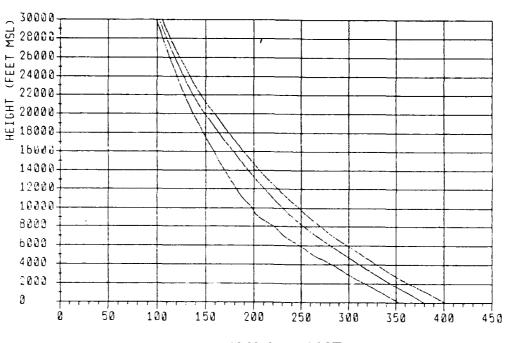
BASE			DUCT THK PE	S RCENTIL	ES .		SRLA THI FE	S RCENTI	LES :		NORM	IAL ERCENTI	LES		508 *H) FE	ACENTI.	-Ë5
FT MSL		%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	%FRO	19%	50%	9117	%FR0	1.25.	50%	₽ ., 5 <u>.</u>
9FC-500	;	11.5	79	79	295 :	18.8	79	98	1963	92.8	970	16221	35054	17.1	79	79	774
500-1000	:	0.7	197	394	492	2.7	98	မှမ	945	7.6	98	11664	7458:	1.1	96	295	9.25
1000-1500	7	0.8	295	443	591	2.7	98	541	1029	4.9	98	9941	14:89	. 9	⊋ 8	491	1.28
1500-2000		1.6	108	295	581	2.7	98	394	846 .	2.6	1772	:5976	33238		78	7.4.4	679
2000-2500	;	Ú.9	138	394	1004	2.4	98	295	876	3.8	98	7677	33:05		591	905	1:81
25 00- 3 000	:	0.4	98	197	591	1.7	98	295	965	3.4	896	16536	21617	ં. ઇ	120	÷ė6	16
3000-3500	1	0.6	98	246	591	1.1	98	295	689 :	2.1	38	19535	72042 .	್.5	28	_ 0 =	591
3500-4000	;	1.1	98	246	640	2.2	98	295	866	2.7	217	19035	21535	9.6	70	_4e	2016
4000-4500	1	0.9	98	295	669	2.2	98	492	689 :	2.3	98	2641	31136	··. 7	9.6	794	58 9
4500-5000		1.0	98	295	463	4.7	96	295	787	5.6	197	11762	79349	I.I	98	705	\$1.5 <u>5</u>
5000-6000	:	1.5	98	295	591	2.4	-	492	689	6.7	96	12763	29955	2	96	794	964
600 0-7500		1.8	98	246	594 .	4.1	98	295	559 :	6.2	217	17078	28774	1.7	≎ 8	447	9:5
7000- 9 000		1.5	98	295	394	3.0	98	295	492 :	4.6	179	10696	27688	1.€	오늘	794	984
8 000~ 9 000		0.7	98	98	394	1.8	98	197	640	4.3	98	12336	26904	1.7	98	295	1299
9000-10000		Ů. 6	197	295	295	2.3	98	295	481	3.1	98	4036	25721	2.2	46	_ 0 5	659
10000-11000	•	0.7	98	197	591	1.4	98	197	394	5.0		5364	24775	2.7	98	295	728
11000-12000		0.5	98	148	197	9	98	197	394	2.2	413	6496	24049	1.7	157	591	1220
12000-13000	;	0.3	98	246	295	0.9	98	197	433	3.0	98	4544	22651	2	98	551	1779
13000-14000	:	0.3	98	148	197 :	1.2	98	98	394	4.4	98	2559	2151	7.9	98	394	797
14000-15000		0.5	98	146	295	1.5	98	197	285	4.6	197	4:34	20604	3.3	96	2.94	726
15000-16000	;	1.1	98	98	256	1.4	98	98	295	4.9	98	1542	19521	4.2	99	726	75:
16000-17000	:	0.1	98	98	98	1.2	131	164	381	6.1	623	835	18872	5.7	164	128	až.
17000-18000	:	0.2	164	164	164	1.0	164	164	328	5.5	361	5413	17681	4.5	164	7.26	859
18000-19000	:	0.4	164	164	164 .	0.5	164	164	164	7.8	497	8530	16569	7.4	164	128	820
19000-20000		0.1	164	164	164	0.3	164	: 64	164 .	4.0	820	14928	15748	3.9	164	320	6.6

0000Z

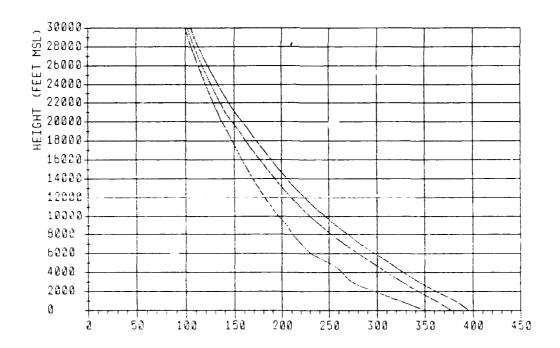
BASE			DUCT	S RCENT I			SRLR	S RCENTIL	56			NORM	AL ERCENTI			SUB THE PE	RCENTI	e e
FT MBL	:	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%		%FRÜ	10%	50%	90%	%FRQ	10%	50%	٠.
8FC-500	- • -	4.6	79	79	591 :	14.1	79	79	736	:	94.1	689	13878	25024	28.5	79	79	394
500-1000		0.5	295	492	787 :	2.8	98	492	1083	:	10.0	78	9449	04680 i	1.2	78	295	610
1000-1500		0.⊟	98	394	1072	1.9	96	492	935		2.8	335	15307	34199	0.7	295	492	1378
1500-2000	:	0.6	197	394	591 .	1.2	98	738	1408		2.6	689	7481	33597	0.3	492	640	797
2000-2500	:	0.5	98	246	492 .	1.3	98	394	965	:	2.2	i 1 🕏 1	15191	33115	0.9	96	501	2.67
2500-3000	:	0.8	118	394	591 :	1.3	98	492	1093 .		1.8	98	12977	32711	○.8	198	246	945
3000-3500		,⊹.5	98	295	295	1.3	98	344	797		1.8	98	6890	26149 .	1.1	197	492	B17
3500-4000	:	0.6	98	246	295	1.7	98	794	935	;	2.3	98	3790	31618	0.9	⇒6	754	1131
4000-4500		0.7	98	295	591 :	2.6	98	492	738		2.2	98	4429	31048 .	V. 9	394	492	600
4500-5000		1.4	98	295	394	3.8	98	98	591	:	5.8	986	11647	50049 .	2.7	295	541	: 85
5000-6000	;	0.9	98	295	591 :	3.2	98	492	856		5.4	98	10335	29935	2.4	98	295	905
6000-7000		2.3	98	295	295	5.1	98	295	679		8.≎	1:8	10958	28675	2.9	⇔ €	394	787
7000- 8 000		2.0	98	197	394	4.4	99	295	659	1	6.8	78	8169	27591	1.9	98	794	1142
8000-9000		1.6	98	197	394	4.1	98	197	610		7.6	531	10007	26766	2.6	ėa	794	719 .
9000-10000		0.5	98	197	394 :	2.3	118	295	591		3.4	98	52 91	25899	7. t	48	794	9.7
10000-11000	- • -	0.8	98	148	394	1.9	98	197	413	•	6.5		6710	24935 .	3.7	~g	704	986
11000-12000		0.2	98	98	197	0.9	98	197	213		3.6	98	5479	21941 :	2.5	9 €	794	728
12000-13000		0.4	98	98	197	1.3	98	197	394		5.3	99	3642	22494	2.€	98	492	886
13000-14000		0.8	98	98	295	1.2	98	197	335		4.B	98	2772	21667	4.4	98	794	680
14000-15000		0.7	98	98	197 -	1.5	98	197	295	:	5.7	98	2102	20604 .	4.8	98	594	589
15000-16000	- • -	ن. 9	98	: 48	197 :	1.3	98	98	299	:	5.9	78	7281	19521	5.4	· · · · · · · · · · · · · · · · · · ·	394	994
16000-17000		0.3	98	164	164	1.6	131	164	226		7.0	726	2461	18727	6.5	164	459	820 .
17000-18000		0.2	164	164	164	Ú. 9	164	164	328	1	6.4	410	3937	17717	4.7	154	128	771 :
18000-19000		Ú.6	164	164	164	0.9	164	164	164	:	10.6	984	15912	:6569 .	9.0	: 64	:28	920
19000-20000	1	0.2	164	164	164	0.7	164	164	164	:	5.9	056	14928	15617	5. 7	154	129	820

1200Z

FIGURE B-10-1-D B-159



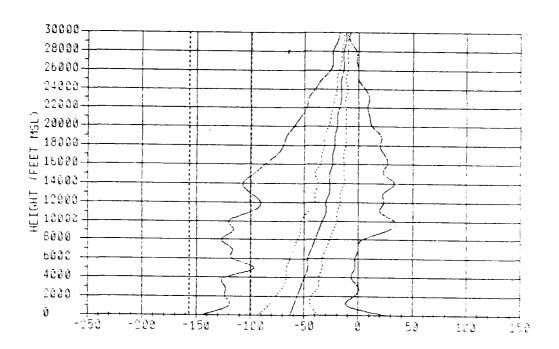




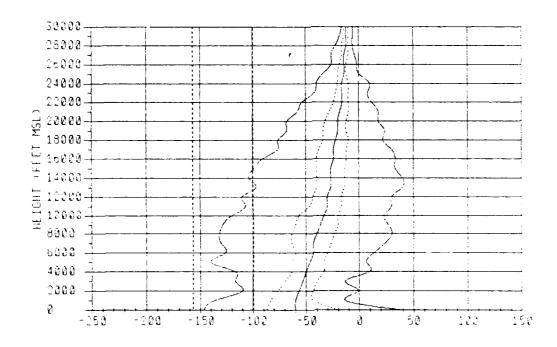
N (N-Units) 1200Z

FIGURE B-10-2-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-10-2-B B-161

HOWARD

WET-DRY TRANSITION

HOT FT MSL	18	N PERO	ENTILES SON	90%	zes	18	DND 10%	H PERCENT	TILES 50%	99X	11	PERCENT DUOT	OCCURR BRLR	
SFC-500 500-1000 1000-1500 1500-2000 2000-2500	:359.22 :351.94 :342.19 :331.73 :321.87	373.37 365.00 356.25 346.76 337.06	385.06 376.36 367.06 357.94 348.69	394.67 396.50 376.56 367.19 357.87	398.07 385.95 375.10	:-234.66 1-122.91 !-119.86 !-144.56 !-156.28	-100.31 -87.50 -83.33 -83.33 -77.08	-82.50 -82.50 -80.41 -80.41 -58.33	~22.91 ~39.56 ~43.75 ~45.63 ~43.75	103.23 0.00 ~7.82 -16.66 -6.25	11	7.0 0.9 0.3 1.7 2.2	15.3 6.0 3.6 4.1 3.2	1.9 : 0.9 : 0.5 :
2500-3000 3000-3600 3500-4000 4000-4500 4500-5000	:312.87 :303.83 :295.60 :287.23 :276.72	327.00 318.00 309.72 301.38 293.50	339.19 330.25 322.19 314.08 308.50	348.37 339.00 331.08 323.38 316.19	348.79 337.28 329.71	:-129.16 :-123.62 :-122.91 :-124.33 :-133.33	-70.83 -70.83 -68.68 -68.66	-56.25 -54.16 -52.08 -50.00 -50.00	-39.56 -39.50 -39.50 -35.41 -33.33	10.42 4.87 -9.71 -8.33 2.94	11	0.8 ! 0.6 ! 0.6 ! 0.8 !	2.8 3.0 3.0 2.4 4.3	1.6 :
5000-8000 6000-7000 7000-8000 8000-9000 9000-10000	1259.68 1247.23 1232.33 1219.82 1203.66	280.89 265.75 253.20 239.80 227.90	294.25 279.08 265.19 251.20 238.90	305.69 290.06 275.75 282.25 248.99	296.50 202.06 209.42	1-100.00 1-120.21 1-123.27 1-126.69 1-116.66	-88.88 -82.50 -80.41 -58.84 -50.00	-47.91 -48.83 -42.97 -39.88 -36.71	-33.33 -33.33 -29.95 -20.89 -23.30	0.00 4.17 7.89 10.03 43.36	11	1.1 : 1.6 : 1.6 : 2.2 : 1.7 :	2.5 4.6 4.6 7.3 3.9	2.2 : 2.5 : 3.3 : 4.6 :
10000 11000 11000-12000 12000-13000 13000-14000 14000-15000	1187.16 1183.10 1173.80	218.80 205.80 195.90 187.10 178.50	228.40 218.00 208.70 199.80 191.50	237.90 226.90 216.60 207.70 198.90	233.33 222.20 212.50	:-118.66 :-108.64 :-86.71 :-100.00 :-103.25	-53.36 -48.61 -39.97 -39.97 -39.97	-33,33 -30,07 -29,95 -26,69 -26,56	-20.05 -19.92 -16.66 -13.41 -13.41	23.30 29.99 20.01 29.95 33.33	11	1.4 : 1.8 : 1.3 : 1.7 :	4.8 3.9 2.7 4.6 4.4	6.5 5.6 5.2 6.2
15000-16000 16000-17000 17000-18000 18000-19000 18000-20000	1186.70 1151.20 1145.40	169.90 163.20 155.60 149.90 144.00	183.50 176.40 168.50 180.80 153.50	191.00 183.60 175.40 187.90 160.10	194.80 186.77 178.80 171.29 163.20	-89.97 -87.13 -77.98 -72.03 -69.51	-38.71 -34.98 -33.98 -32.03 -30.00	-23.44 -25.98 -22.03 -21.95 -21.85	-13.26 -13.98 -13.98 -12.03 -12.03	23.30 22.03 23.88 20.00 14.04	11	1.1 : 0.6 : 0.8 : 0.8 : 0.0 :	3.2 : 2.1 : 0.9 : 1.6 : 0.8 :	9.7 8.5 7.4 9.8 6.8
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	:131.50 :127.30 :122.60	138.90 134.10 129.30 124.70 120.40	147.15 141.30 135.70 130.10 125.00	153.40 146.90 140.90 134.90 129.00	143.40	: -59.94 : -53.98 : -43.96 : -42.03 : -36.01	-27.98 -28.01 -22.03 -21.85 -20.00	-20.00 -18.04 -17.96 -16.01 -16.01	-12.03 -12.03 -11.95 -10.00 -10.00	9.94 8.32 7.97 8.05 3.98	1:	0.8 0.0 0.0 0.2 0.0	0.3 0.5 0.3 0.0	5.7 : 6.7 : 5.7 : 6.2 :
25000-28000 28000-27000 27000-28000 28000-29000 28000-30000	:111.10 :107.00 :103.40	116.50 112.60 108.50 104.70 101.30	120.20 115.60 111.30 107.00 103.20	123.80 118.90 114.20 109.40 105.30	110.70		-18.04 -17.98 -16.01 -14.08 -13.98	-15.94 -13.98 -13.98 -12.03 -12.03	-10.00 -19.00 -10.00 -10.00 -10.00	-1.98 -2.03 -1.43 -8.02 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 :	2.0 : 3.9 : 1.2 ! 0.3 !
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	: 96.80 : 93.70 : 90.20 : 87.10 : 85.10	98.00 94.70 91.10 87.90 65.60	99.70 96.30 92.70 89.30 86.50	101.50 98.00 94.40 90.70 87.50	95.20	: -16.01 : -21.95 : -14.06 : -30.00 : -26.02	-13.98 -12.03 -12.03 -12.03 -12.03	-11.95 -11.95 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-0.02 -6.02 -7.97 -7.97	::	0.0 : 0.0 : 0.0 : 0.0 :	0.0	0.2 0.5 0.0

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SFC-500 :36	1%	10%	BO%	90%	99%		1%	10%	H PERCEN	90x	99%	: 1	DUCT :	SRLR	RENCE
	4.16	373.75	361.56	389.19	397.52	1-17	 3.77	-85.94	-02.C8	13.02	182.13	1:	3.4	8.9	33.1
500-1000 :35		365.75	374.75	383.19		: -13		-85.41	-60.41	-31.25	14.58	::	1.1:	8.1	5.3 :
		358.06	365.69	374.75	382.8€			-83.33	-60.41	-41.66	-10.42	1:	0.0:		1.1 :
		348.19	356.89	385.69	373.98			81.25	-60.41	-45.33	-18.96	::	0.9		: 0.5 :
		336.38	347.56	356.56	363.74			-77.08	-58.33	-43.75	-0.33	1:	0.5	3.3	
		326.25	338.06	347.37	353.75			-72.91	-56.25	-41.86	-2.08	1:	0.5	3.0	
		318.75 308.00	329.06	338.00	344.00			-70.83	-54.16	-39.58	-12.50	: :	0.6	2.6	
		300.00	313.25	322.25	327.98			~86.66 ~64.58	-52.08 -50.00	-37.50 -33.33	-2.42 4.17	11	0.6:	1.9	
		292.25	305.88	314.88	320.98			-66.66	-50.00	-33.33	18 75	11	2.3	6.1	
										- 33.33	+	-++			·
		279.50	293.75	304.89	311.50			-82.50	-45.83	-31.25	8.69	::	2.0 ;	6.4	1 3.9 1
		265.19	278.81	289.50	295.56			-62.50	-43.75	-29.16	22.91	: 1	1.4	5.6	5.1 :
		252.50	265.00	275.56	281.84			-82.50	-41.86	-27.0 8	22.00	;;	2.3	8.7	
		239.40	251.30	262.00	268.56			-63.41	-39.97	-23.30	39.97	1.1	3.7 :	7.3	
9000-10000 : 20-	4.54	228.70	239.10	248.80	254.70	1-13	0.28	-58.77	-38.71	-20.05	48.61	-11	3.3 :	4.0	7.8:
10000-11000 :19	5.14	219.30	228.00	237.70	243.86	:-12	2.00	-56.64	-33.33	-19.92	20.84	1:	2.2	5.9	
11000-12000 :18	7.60	203.00	217.70	226.70		1-11		-46.61	-30.07	-16.66	38.61	11	2.6	4.2	
12000-13000 :18		192.91	207.90	218.40	221.60			-43.36	-29.95	-16.66	39.97	11	2.0		7.1
13000-14000 :17:	3.80	182.60	199.00	207.10	212.02	1-10	3.38	-40.10	-26.69	-14.71	46.63	::	1.7	8.4	8.7 :
14000-15000 :18	7.70	174.40	190.30	198.50	202.66	: -9	5.28	-39.97	-26.69	-13.26	48.66	; 1	1.1	4.5	10.6
15000-16000 :16	2 04	167.20	182.30	190.40	194.20			-43.36	-26.56	-13.28		-++		•	1 12.0 1
18000-17000 : 15		160.80	174.45	182.70	186.40	-8		-39.97	-23.90	-11.95	29.95 36.70	1:	0.9		1 12.0 1
17000-18000 :15		154.60	166.60	174.16	178.20		8.01	-38.04	-22.03	-12.03	23.96	11	0.6		10.1
18000-19000 :14		148.80	189.20	186.10	170.20	: -7		-33.98	-21.95	-10.00	27.96		0.3:		13.4
19000-20000 :14	0.70	143.10	151.90	158.30	102.20	6	3.32	-32.03	-20.00	-12.03	19.33	1.1	0.2	0.9	
20000-21000 :13		138.09	145.30	151.60	155.30	•						-++			*!
21000-22000 :13		133.50	139.30	145.20	148.60	-5		-30.00 -28.01	-20.00 -17.98	-11.95 -10.00	20.00 14.05	1 1	0.3 :	0.8	
22000-23000 :12		129.10	133.90	139.30	142.50		3.98	-23.98	-16.01	-10.00	11.70	1:	0.0		7.2
23000-24000 :12		124.40	128.60	133.40		-4		-21.98	-16.01	-10.00	7.97	- ; ;	0.0	0.3	
24000-28000 :11		120.00	123.70	127.70		-3		-20.00	-15.94	-10.00	6.02	- ; ;	0.2	0.0	
						•					 -	-++	-		
25000-26000 :11		118.00	119.00	122.60	125.00		7.98	-18.04	-13.98	-11.95	1.99	1.1	0.0:	0.0	
20000-27000 :11 27000-28000 :10		112.20	114.80	117.90	120.00		8.01	-17.98	-13.98	-10.00	-3.98	11	0.0	0.0	
28000-29000 :10		104.40	106.30	108.50	110.20		3.98 B.04	-16.01 -14.06	-12.03 -12.03	-10.00 -10.00	-5.94 -6.02	1:	0.0 :	0.0	
29000-30000 :10		101.00	102.70	104.60	106.10	-1		-13.98	-11.95	-10.00	-0.02	11	0.0	0.0	
							. .			- 10.00		-++			+:
	6.90	97.70	99.30	101.00	102.30		e.01	-12.03	-11.95	-10.00	-6.02	1.1	0.0	0.0	0.5
	3.70	94.50	98.00	97.60	98.80		8.01	-12.03	-10.00	-10.00	-6.02	::	0.0	0.0	: 0.0:
	0.20	90.90	92.50	94.10	95.10		3.98	-12.03	-10.00	-10.00	-7.97	; ;	0.0	0.0	
	7.20	87.70	89.10	90.40	91.20		5.93	-12.03	-10.00	-8.05	-7.97	t :	0.0	0.0	
34000-35000 : 8	5.20	85.60	88.40	87.30	88.00	: -2	3.98	-10.00	-10.00	-7.97	-7.97	: :	0.0 :	0.0	: 0.0 :

1200Z FIGURE B-10-2-C B-162

THICKNESS STATISTICS

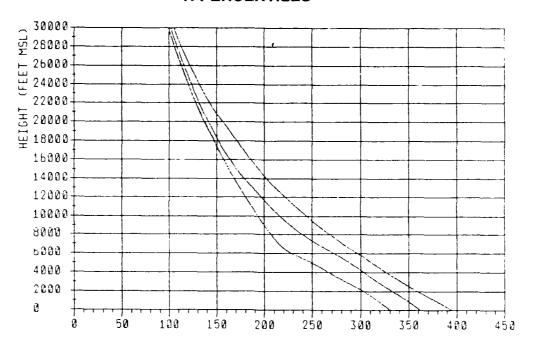
			DUCT				SRLF				NORM	AL			56		
BASE	:			RCENTIL				FCENTI	LES		THE F	ERCEN":	LES		* FE	ACENT :	_ES
FT MSL	:	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	%FRQ	10%	50%	90%	%FRC	1 1 7	2000	٠٠.
SFC-500	:	7.0	79	79	425	15.3	79	79	787	95.7	1360	14656	35054	14.2	79	79	758
500-1000		0.2	984	984	984	1.7	98	591	iiai .	7.1	984	4617	7466		96	744	689
1000-1500	- 1	0.2	98	98	98 :	1.7	157	492	1201 :	2.4	2126	14567	73912	0.3	96	246	394
1500-2000	1	1.6	100	295	571	1.9	98	197	758	5.0	98	16798	33695		; 6 7		1951
2000-2500		1.1	197	295	591	1.9	98	148	1981	3.9	98	7874	11105	. 9	197	591	1475
2500-3000	:	0.6	96	197	194	1.9	98	246	1230	4	1575	13563	11017		295	776	1.61
3000-3500		0.6	99	246	295	1.9	98	295	591	2.5	925	6742	72051	0.3	. 97	794	2.71
3500-4000		0.3	295	640	984 .	1.3	98	817	984	Z. 1	488	1658	1:157		94	ė.4.	Šse
4000-4500	:	Ů. 3	98	197	295	1.1	98	541	589		:870	22393	21136	0.5	294	492	787
4500-5000	:	1 - 4	98	295	394	2.4	98	98	35:	5. 1	1 77	6890	30206	:.6	106	443	1627
5000-6000	-;-	0.8	98	295	394	2.2	98	295	591	7, 9	98	1619	30152	1.4	96	:44	1559
6000 −7000		1.4	98	197	689	3.5	98	344	758	5.5	472	1986	28675	2.1	197	492	1181
7000-B000	;	1.4	98	295	492	3.9	98	295	787 .	4.7	98	3642	25189	5. i	157	794	866
8000-9000		2.2	98	197	492	6.0	96	295	591 .	8.9	98	4.190	25944	5.3	÷a	o.4	: 183
9000-10000	:	1.4	98	197	295	2.8	98	197	591	6.6	98	:5_6	24717	4.	92	- c -	816
10000-11000		1,4	98	197	394 :	4.4	96	295	492	11.1	98	4134	24847	5.4	78	794	118:
11000-12000		1.6	98	98	295	3.5	98	197	453	6.2	98	5051	23242	4.7	98	794	827
12000-13000	:	1.3	96	98	197	2.2	98	197	344	6. 2	98	2756	22770	= : :	⇔ €	- 4	224
13000-14000	:	1.6	98	98	197	4.3	98	197	295	7.0	98	984	21627	7.3	- 9	394	984
14000-15000		1.6	98	197	265	3.0	46	147	295	9.5	98	2165	20407	a.a	98	754	6 7
15006-16000	-+-	1.1	98	98	295	2.2	98	96	-	8.4		2601	19580	7.1		794	997
16000-17000		0.6	164	164	164	1.9	98	164	289	8.4	225	4413	18701	.	. 64	491	784
17000-18000		0.8	164	164	164	0.4	164	104	:28	5.0	492	2625	17364	5.1	213	443	6.
18000-19000		Ö. 8	164	164	104	1.6	104	164	712	10.0	492	5249	16585	ē. i	164	1.8	
19000-20000		0.0				٠.6	164	164	:28	5.3	820	5085	15410	5.:	164	49	6.

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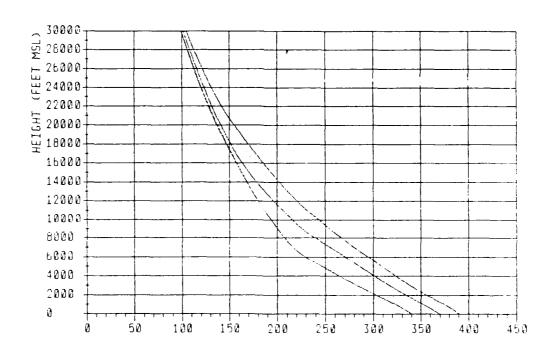
BASE		DUCT				SRLF				NORM				SUF		
			RCENTIL				RCENTI				ERCENTI			THE P	ERCENTI	LES
FT MOL	 %FRO 	10%	50%	90%	% F F C	10%	50%	90% .	%FRO	1 9%	Son	904	WERE	10%	50%	900.
BFC-500 -	3.4	79	79	463	8.9	79	128	1181	93.9	63 0	1:299	35054	23.:,	79	~,	425
5 00-1000 :	0.5	197	295	591	2.8	98	-28	1575	11.2	98	7974	34581	1.1	98	197	194
1000-1500	Ú.6	197	497	591	3.1	98	344	1063 .	2.5	98	4577	33803	0.6	29€	594	1101
1500-2000	0.6	98	295	394	2.5	98	246	709	4.2	354	14666	33675	0.7	1000	1132	1181
2000-2500 :	0.3	295	492	689	೦.⊊	98	492	1286 .	3.0	108	9843	70105	. 9	୍ଟ୍ର	295	291
2500-3000 :	0.3	492	541	591	1.7	118	492	386	2.3	98	4380	32445	0.5	78	394	385
3000-3500	0.3	295	295	295	1.1	98	295	866	1.7	177	5315	2227ь .	1	295	5 0;	761
3500-4000	O. 3	98	148	197 .	1.2	98	591	984	2.5	98	2262	16135	ું. ક	78	-44	764
4000~4500 :	0. Z	98	197	295	2.2	197	443	488	1.9	96	2805	985	1.7	9€	7.74	758
4500-5000	 2.3	98	295	591	4.0	98	197	512	5.4	98	4822	20249	2.7	78	295	591
5 000- 6 000 .	 0.8	197	197	394	4.8	98	394	787 :	6.5	98	3839	29955	2.6		492	1260
6000-7000	1.4	98	295	394	3.6	98	394	719	6.5	423	2775	8546	5.5	1 = -	49	1417
7000-B000 :	2.0	138	394	492	5.6	98	295	689	8.5	197	3937	27691	4.	98	794	9:5
90 00~ 90 00	3.3	99	197	394	5.3	98	197	591	11.7	96	2756	26695	6.2	246	49=	984
9000-10000	2.6	98	197	41)4	3.1	118	295	492	8.2	98	1575	25723	5.7	79	794	727
10000-11000	 1.6	98	197	394	5.3	98	197	492	12.4	118	4429	24917	6.2	78	~94	943
1000-12000	2.3	98	197	295	2.7	98	197	432	8.4	98	1772	27518	6.4	96	442	986
2000-13000	1.7	98	98	295 :	4.3	96	197	295	7.9	98	1772	22750	5.1	78	794	875
3000-14000 :	1.6	98	96	265	5.0	98	197	795	8.7	98	182	21195	7.0	197	794	907
4000-15000	1.1	98	98	197 .	3.7	98	98	295	9.0	98	935	20063	7.9	98	394	90%
5000-16000 1	 1.4	78	98	197	5.0	79	148	• 295	10.7	98	1772	19403	9.3	78	274	 95 9
6000-17000 :	0.9	164	164	295	1.4	164	164	328	11.8	328	2953	18701	10.2	164	49.	510
7000-18000 .	0.6	164	164	164	1.6	164	164	312	10.4	744	3199	17791	6.7	164	492	9.9
8000-19000	0.3	164	164	164	1.6	164	104	164	15.4	556	5249	16569	11.5	164	7.26	
9000-20000	9.2	164	164	164	ં. 🤛	164	164	104	6.1	820	5249	15732	6.1	154	728	920

1200Z FIGURE B-10-2-D B-163 HOWARD DRY SEASON

N PERCENTILES



N (N-Units) 0000Z

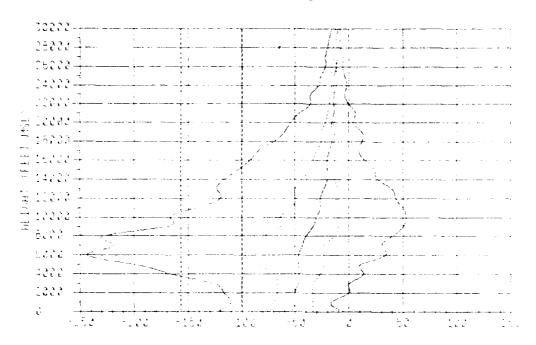


N (N-Units) 1200Z

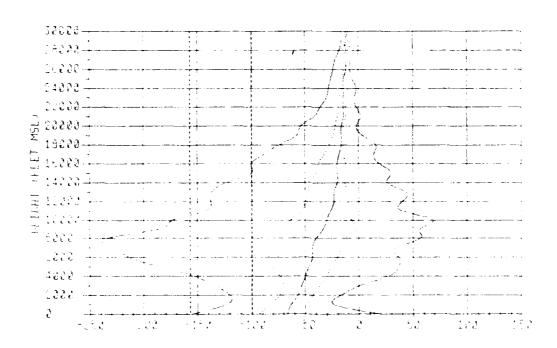
FIGURE B-10-3-A B-164

HOWARD DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-10-3-B B-165

HOWARD	DRY SEASON
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HOT FT MSL	1%	N PERC 10%	ENTILES 50%	90%	391	18	2ND:	H PERCENTI	1225 50%	775	PERCENT	OCCURRENCE TRLP 5VB
SFC-500 900-1000 1000-1900 2000-2000 2000-3000 3000-3000 3500-4000 4000-4500 4500-5600	336.38 329.87 322.61 315.28 308.24 300.58 289.87 280.47 271.55 262.90	349.31 343.14 336.19 328.75 321.19 312.75 304.50 297.00 299.38 281.79	366.58 359.69 351.75 344.38 337.00 328.75 320.69 313.50 306.38 299.22	386.19 377.19 367.75 359.19 351.30 343.00 334.50 327.19 320.06 313.06	400.37 380.73 380.58 370.84 361.73 352.67 343.55 335.38 327.56 320.19	-286.31 -116.66 -109.33 -109.81 -110.41 -127.08 -133.33 -135.41 -172.37 -160.41	-87.50 -77.08 -72.91 -88.75 -66.86 -86.66 -66.66 -66.56	-52.08 -50.00 -50.00 -50.00 -47.91 -47.81 -45.83 -45.83	27,08 -33,33 -33,33 -33,33 -33,33 -33,33 -29,10 -27,06 -25,00	150.91 -16.66 -16.66 -4.17 0.00 0.00 2.00 2.00 8.25 10.42 20.93	10.8 0.2 0.2 0.6 1.1 1.2 1.5 2.6	8.6 12.7 3.1 0.8 2.0 1.0 2.6 1.4 2.9 1.4 3.0 1.6 3.4 1.9 4.4 2.6 6.7 4.1
5000 - 8000 6000 - 7000 7000 - 8000 8000 - 8000 9000 - 10000	245.96 225.90 214.60 205.90 198.70	267.69 247.70 230.10 215.70 205.00	267.38 270.69 254.00 237.60 224.90	301.78 288.19 271.89 287.19 243.20	294.88	:-202.08 :-236.89 :-216.86 -216.66 -166.66	-85.41 -100.00 -89.97 -79.95 -80.02	-45.83 -43.38	-23,44 -23,30 -22,91 -13,24 -6,84	10.42 38.80 33.33 43.36 50.00	7.8 11.8 11.0 23	14.9 4.0 18.9 5.4 18.9 6.1 15.1 10.3 6.8 12.1
10000-11000 11000-12000 12000-13000 13000-14000 14000-13000	192,00 195,00 178,70 172,30 166,50	196.50 189.00 191.80 174.80 169.40	214.00 204.10 194.60 185.50 176.40	232.00 220.80 210.30 201.10 192.20	241.93 230.40 219.50 209.80 200.20	-166.68 -134.70 -116.66 -123.30 -106.84	-63.26 -50.00 -46.74 -50.00 -40.10	-26.69 - -23.44 - -23.30 -	-10.03 -10.03 -10.03 -13.28 -13.28	50.00 50.00 43.36 36.59 33.33	5.5 4.1 2.6 3.0 2.6	9.9 13 1 6.9 10.5 5.4 9.3 6.5 9.2 4.2 7.2
15000-16000 16000-16000 17000-18000 18000-18000 18000-20000	.161.10 .155.70 .150.60 .144.90 .140.00	182.70 157.20 151.80 146.10 141.30	189.00 182.40 155.70 150.10 144.40	184.40 176.90 188.40 180.46 152.80	191.80 184.00 176.18 169.30 190.30	-103.30 -86.71 -78.04 -70.00 -53.98	-36.59 -32.03 -28.04 -26.01 -24.06	-18.04 - -17.98 - -16.01 -	-13.28 -13.98 -13.96 -13.98 -13.98	23,30 11,98 11,98 13,98 8,02	2.0 1.2 : 6.5 0.3	4 2 . 6 7 2 . 6 6 . 2 2 . 2 7 3 2 . 1 . 6 0 0 . 7 3 4
2000-21000 21000-22000 22000-23000 23000-24000 24000-25000	.135.50 131.10 126.90 122.30 118.40	136.70 132.20 128.00 123.40 119.40	139.60 135.00 130.60 126.10 121.70	146.30 140.60 135.60 130.30 125.30	153.70 147.26 141.40 135 44 129.50	-52.03 -41.95 -37.96 -30.00	-21.95 -20.00 -16.04 -17.96 -16.01	-14.06 - -13.98 -	-12.03 -12.03 -11.95 -11.95	4.08 3.98 0.00 -3.98 -2.03	0.2 0.0 0.1 0.5	6.3 4.3 0.2 3.1 0.1 2.4 0.0 2.3
25000 - 26000 26000 - 27000 27000 - 26000 26000 - 29000 29000 - 30000	114.80 110.90 108.80 103.31 100.10	115.50 111.80 107.80 104.30 101.00	117.70 113.90 109.90 109.50 102.80	120.80 116.60 112.40 108.10 104.46	124.40 119.60 115.10 110.20 106.10	-23.98 -21.95 -21.95 -18.04 -18.01	-18.01 -15.94 -13.98 -13.99 -12.03	-12.03 - -12.03 - -11.95 -	-11.95 -10.00 -10.00 -10.00	-2.63 -8.02 -6.02 -7.97 -7.97	0.000	0.0 L 0 0.0 L 0 0.0 L 2 0.0 C 4
3000-31000 31000-32000 32000-33000 33000-34000 34000-3500)	96.80 93.80 90.20 87.20 85.20	97.80 94.70 91.10 88.00 85.80	39.40 96.20 92.70 89.30 86.70	101.00 97.70 94.30 90.70 87.60	102.30 98.80 95.30 91.40 88.20	-14.06 -15.94 -16.01 -25.82 -23.39	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -	-10.00 -10.00 -10.00 -10.00 -7.87	-7,97; -7,97; -7,97; -7,97;	0.000	0.0 0.2 0.0 0.2 0.0 0.1 0.0 0.1

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FT MSL	1%	N PERC	ENTILES 50%	90%	9 9 X	1 %	DND 10%	B PERCEN	TILES 90%	99%	:	PERCENT DUCT	CCCURR SRLR	ENGE SUB
SFC-903 503-1460 1000-1900 2000-2000 2000-3000 3000-3000 3000-3500 4000-4500 4800-9000	345.67 349.56 327.74 319.08 309.08 294.02 283.02 287.38 286.87 255.73	384.25 385.50 335.58 325.72 315.75 305.75 297.00 288.56 286.25	376.89 367.94 327.88 348.25 339.06 329.88 312.19 304.19 296.56	386.50 379.56 369.00 359.36 350.38 341.22 332.19 324.59 317.19 316.06	394.39 386.56 377.08 387.19 357.56 349.30 339.00 331.19 323.68 317.19	-221.46 -139.58 -122.91 -116.75 -116.86 -120.83 -122.91 -143.85 :-147.91	-96.35 -91.86 -91.41 -81.25 -75.00 -72.81 -70.83 -72.81 -77.08	-60.41 -68.68 -92.50 -90.41 -58.33 -59.25 -54.16 -52.08 -50.00 -47.91	0.00 -43.75 -45.83 -47.91 -43.75 -41.86 -39.59 -35.41 -71.25 -29.16	122.39 -4.17 -19.98 -19.69 -20.80 -16.68 -0.00 -0.00 -20.83 -39.58		5.8 1.3 6.8 0.5 0.6 0.7 1.3 1.6	12 9 6.9 4.6 3.4 2.5 3.1 2.7 4.9 5.7	23 9 1 4 0 6 0 6 0 8 0 8 1 3 1 5 2 2
5000 - 8000 8000 - 7000 1000 - 8000 8000 - 8000 9000 - 10000	239.26 223.79 214.66 205.90	265,50 247,50 210,70 215,40 204,50	284.50 269.38 254.10 237.40 223.40	299.38 284.88 270.75 258.19 242.10	308.00 292.75 278.88 265.84 252.20	-101.25 -220.03 -223.73 -229.95 -174.03	-79.18 -86.59 -93.36 -89.97 -96.89	-43.75 -43.75 -41.66 -39.58 -33.33	-23.00 -20.83 -16.66 -10.03 -3.26	35.41 33.33 38.59 58.64 60.64		0.3 9.1 10.8 13.1 6.0	12 8 14 6 18 5 19 6	6.4 6.7 6.3 13.5
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	192,10 195,00 178,80 172,30 168,50	196.10 188.50 181.40 174.80 188.30	213.30 203.40 194.10 185.20 175.80	230.00 219.10 209.20 200.20 191.50	240.70 228.54 218.26 208.80 199.50	~177.37 -136.59 -130.07 -139.05 -114.06	-83.41 -53.25 -46.61 -46.74 -43.36	-28.69 -28.56 -23.30 -21.68 -20.05	-8.77 -10.03 -9.90 -10.03 -13.28	60.02 34.67 40.10 43.28 23.30		6.0 3.6 3.7 4.7 2.4	9 9 7 4 6.7 7.5 5.9	18.8 10.6 11.9 10.6
19000-18000 18000-17600 17600-18600 18000-18600 18000-20000	161:10 155 70 150 50 144 50 140:10	162.80 157.10 151.70 146.00	166.30 161.60 155.30 149.80	103.50 175.50 167.10 150.35 151.90	191.00 183.30 175.00 186.00 199.29	-104.55 -93.77 -81.95 	-38.71 -34.96 -30.00 -28.01 -22.03	-20.05 -18.04 -17.96 -16.01 -16.01	-13.28 -12.50 -12.03 -12.03 -13.99	23.35 15.04 1:.06 10.00		2.2. 1.1 0.4 0.6	4.5 3.4 2.2 1.4 0.6	4 9 4 9 5 5
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	135.50 131.10 126.95 122.20 116.31	136.50 132.10 127.90 123.30 119.30	139.30 134.70 130.30 125.90 121.50	145.50 139.70 134.70 129.60 124.60	152,22 146,23 140,20 134,50 128,70	-50.00 -38.04 -33.98 -27.96 -27.96	-20.00 -20.00 -17.96 -16.01	-16.01 -14.06 -13.99 -13.98	-13.98 -12.23 -11.95 -11.95 -11.95	2.03 J.00 -2.03 -3.98 -3.99		0.0 0.0 0.1 0.0	1.3 9.0 9.1 9.0 9.0	1 7 8
25000-26000 26000-27000 27000-26000 28000-28000 28000-30000	114 50 110 80 106 80 103 30 100 10	115,40 111,70 167,70 194,20 193,86	117.50 113.70 109.70 105.80 102.50	120.50 119.20 112.00 107.80 104.20	123,79 119,70 114,50 109,65 105,86	- 23.98 -17.98 -20.00 -16.01 -16.01	-16.01 -14.06 -13.98 -13.98 -12.03	-12.03 -2.03 -12.03 -11.95 -10.00	-11.95 -10.00 -10.00 -10.00 -10.00	-8.02 -7.87 -7.87 -7.87 -7.97	•••	0.0 0.0 0.0 0.0	0.00000	0 7 0 7 0 7 0 3
30000-31000 31000-32000 31000-33000 33000-34000 14000-35000	96.90 93.60 90.30 67.20 95.20	97 70 94.60 91.10 87 90 85.70	99.20 96.00 92.60 89.20 66.60	100.80 97.60 94.20 99.60 87.50	102,10 96,76 95,20 91,30 68.09	-16.01 -15.94 -16.04 -22.03 -20.00	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10,00 -10,00 -10,05 -8,05 -2,97	-7.97 -7.97 -7.97 -7.97 -7.97		5.0 6.0 5.0 0.0	0.0	5.2 5.1 5.2 6.2 5.3

1200Z FIGURE B-10-3-C B-166

HOWARD DRY SEASON

THICKNESS STATISTICS

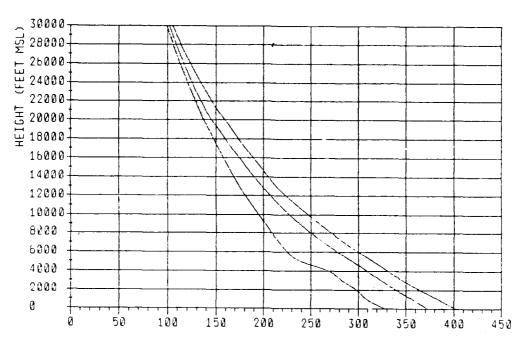
BARE		DUCT	S RCENTIL	.ES		SALA THE PE	S ACENTI	LES		400M 4 4H T	IAL ERCENTI	_£5		5.8	(608871)	F =
FT MSL	7.FRQ	10%	50%	90%	%FRQ	1.0%	50%	90%	%FRC	$1 \odot \lambda$. · · ·		1,5 A G	4 %	• ;	- 1
SFC-500 :	10.5	79	79	177 -	9.6	79	98	10e7	97.4	2854	7⊍86	74975		7.7	7.9	
500-1000 :	0.1	98	98	Ψë	4.7	98	96	460	1.5	: 5	5118	2-4 6		오늘	:4∌	1 ÷
1000-1500	0.2	197	689	787 .	٠.5	98	497	1083	1.2	≎ଜ	56:	14		274	٠	1.54
1500-2000 .	0.5	99	197	295	1.6	96	394	787	1.6	274	7185	33557	. 7	4 7 2	: 16	
2000-2500	0.4	295	295	394 .	1.6	98	541	787 .	1.7	1821	4232	15522		. 4 *	667	1559
25 00 -3 000 :	1.0	98	292	768	1.9	98	591	984	ī.4	95	4036	125.4	. 5	¥ ⊕	344	990
30 00-350 0 :	0.9	98	295	748 .	1.9	38	394	591	2.3	98	2559	7205	٠.6	: ∵⊖	306	: 555
3 5 00- 4 000 .	1.1	197	394	591	:.9	98	197	287	2.9	9 ⊜	4 . 36	3:155	1.1	¥€	£4	
4000-4500	1.9	197	295	551 .	3.7	98	394	689	2.5	⇒ ପ	7977	976	1.7	⊋ 69	-4.	₹:5
4500-5000	2.3	98	295	591	6.5	96	394	187	٥. ت	99	1494	1.0.1	1.1	. 6 ,	744	494
5000-6000 :	6.4	197	394	591	19.8	98	295	866	12.0	98	3740	2956:		96	794	9.2
6000-7000 :	9.5	197	295	591	14.8	98	295	589 .	17.2	394	4526	28675	4.1	: 🌣 *	174	764
70 00- 8 030 :	8.9	48	295	404	13.2	98	295	59;	17.5	157	4:36	2771.	4	କଥ	<u>.</u> 4:	a .
8 000 ~9 000 :	8.2	98	197	394	11.9	98	: 97	591	19.7	78	1658	267(7	e.	7 B	40:	1576
9000-10000 :	4.5	98	197	4.04	5. :	96	157	492	12.5	9€	31 5 0	12771	7. 9	96	: 44	856
10000-11000 :	4.8	98	197	394	8.5	98	197	492	18.6	98	9262	2493	9.3	96	49:	1002
11000-12000 :	3.4	98	98	335	6.2	98	197	394 :	12.2	၁၉	2642	21754	6.4	ခုခ	495	1 - 32
12000-13000	2.3	98	197	295	4.8	96	197	344	10.2	98	4855	12770	0.4	ΨĖ	491	6.
13000-14000	2.7	98	197	295	6. T	96	197	295	11.9	98	5417	21795	5.4	78	794	294
14000-15000	2.3	98	98	197	3.7	98	4 -	295	8.9	98	5020	20.75.3	4.7	46	704	· 5 -
1500-16000 .	1.9	98	98	246	2.9	96	96	295	7.5	98	7119	1967	4.5	98	~a:	67:
11000-17000 :	1.2	151	164	230 .	2.4	151	164	128	6.2	164	18045	19727	4.4	: 54	4 5 5	55-₹
17000-18000 .	0.5	164	164	328	2.6	164	164	213	3.3	246	17061	17861		. 6.4	40	4 € 4
18000-19000	0.3	164	164	164	2.1	164	164	228	7.1	329	15912	16777	4.5	164	49	51
19000-20000 :	0.2	164	164	164	0.6	104	164	164	2.4	1148	15 92	15746	2.4	. 64	491	el

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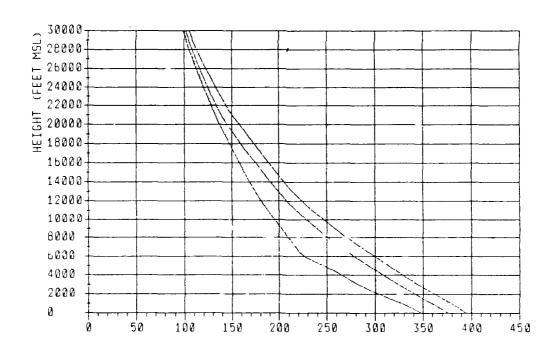
BASE .			DUCT	S RCENTIL	FS		SRLA THE PE	S	LES :		NORM THE	AL ERCENTI	ES		5-4-F	FCENT!	FS
FT MSL	7.F	Ħ@	10%	50%	90%	%FRQ	10%	50%	90%	%F#Q	10%	50%	9.7	SERC	1.2	5. %	۰.
9°C-500 ;	=======================================	. 8	79	79	295	12.9	79	98	886	95.5	1252	7264	34975	23.9	79	76	295
5 00-1000 .	0	. 6	98	394	374	2.5	98	197	1358 .	7.5	394	4724	74384	ં.⊇	197	492	591
1000-1500		. 4	197	295	492 .	1.9	98	394	986	2.7	637	5659	17917 .	⊙, ♦	394	29:	7241
1500-2000		· . 🖈	98	295	394	1.1	98	244	1280 :	2.4	98	4774	9501	7.3	98	295	2957
2000-2500 .	C	. 5	197	295	497	1.5	98	541	886	1.4	98	5708	15617	U	242	394	44:
1500-3000 .	C	. 6	98	295	886	1.6	98	492	886	2.4	226	3839	9872 .	4	98	896	12.8
3000-3500	1	. 1	197	295	837	1.7	98	497	846	1.0	96	2264	9282	9.9	96	≝ 5-1	1755
3 5 00- 4 000 :	- 0	. 9	197	295	758	3.2	98	492	886	2.5	99	1870	15728	₩.5	∍ €	794	984
4000-4500	C	. 9	128	295	561	3.5	95	491	767	3.4	.16	3543	8267	1.€	98	591	:260
4500-5000	3	. 6	98	295	492	6.4	98	295	748	6.4	335	3547	30309 .	2.4	:97	591	767
5000-6000	4	. 4	98	295	689	8.9	98	295	787 .	12.4	98	2021	29719	4.5	99	90;	76,
6000-7000	-	. 7	98	295	491	11.6	98	295	689	14.7	96	∍15∵	28380	4.2		59:	
7909 -8 000	9	. 1	98	295	497	15.0	98	295	689	18.3	78	こマコン	27642	6.2	-> ⊜	294	:.⊕:
8000-9000	11	. 2	98	197	394	15.5	96	197	59:	25.5	Ç-Ş	3642	268.5	10.00	96	497	i⊋b.
9000-10000	4	. 5	98	197	394	9.1	98	295	492	:4.5	76	7642	72857	10.5	38	591	∌ ₽4
10000-11000		. 9	78	197	:74	7.1	78	197	594	22.4	197	3642	24827	9.4	98	492	1181
11000-12000 :	3	. 1	98	197	195	6.6	99	197	417	12.3	98	3937	23832	7.6	⇔ 8	491	.: 5
12000-13600	7	. 4	98	197	295	6.2	98	197	794	:2.9	98	4692	22770	8.0	98	591	::3:
13000-14000	4	. 7	98	98	295	7.2	98	197	-94	13.5	98	7973	2100	۵.۵	99	754	:080
14000-15000	2	. 2	98	98	295	5. :	98	197	295	10.2	325	20014	20772	3.8	68	594	1181
15000-16000 .			98	98	197	4. ن	48	197	295	7.6	90	12795	19777	4.1	98	492	1083
16000-17000	C	. 9	108	164	256	3.0	131	164	318	7.3	335	18209	18627	3.4	164	491	1000
17000-18000	- 0	. 4	164	164	164	2.1	164	164	320 :	5.3	328	9678	17717	4.2	164	492	784
18000-19000 :	C	. 6	164	164	164	1.3	164	164	326 ·	7.1	673	15912	16717	4.3	164	326	705
19000-20000 :	C	. 2	164	164	164	0.6	154	104	164	2.4	:28	13206	15594	. Z.O	104	410	984

1200Z

FIGURE B-10-3-D B-167



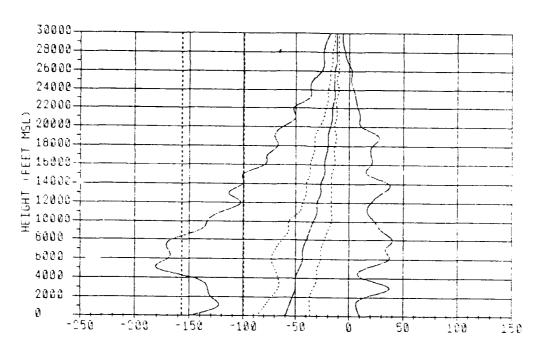
N (N-Units) 0000Z



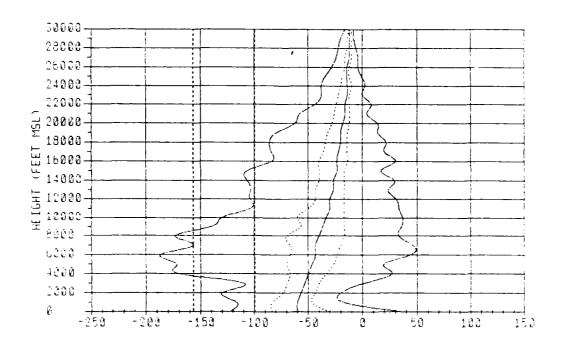
N (N-Units) 1200Z

FIGURE B-10-4-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-10-4-B B-169

HOWARD

DRY-WET TRANSITION

NOT YT MSL	11%	N PERCENTIL		98X	18	DND 10%	H PERCEN	TILES 50%	90%	11	PERCENT DUCT	OCCURR BRLR	ENCE :
SFC-500 500-1000 1000-1500 1500-2000 2000-2500 2000-3500 3500-3500 4000-4000 4500-5000	:336.71 :339.27 :320.45 :310.72 :303.69 :296.77 1267.30 :281.05 :281.05 :285.07	357.53 376. 350.97 370. 343.37 361. 335.07 352. 326.75 344. 317.58 335. 309.69 327. 301.39 319. 294.00 312. 285.89 304.	19 365.19 00 375.19 90 368.00 06 357.06 13 347.96 06 339.00 56 331.50 19 324.19	397.23 380.06 376.49 366.49 387.02 347.06 339.25 331.24	-292.80 -141.86 -127.08 -116.66 -152.06 -152.37 -131.25 -127.09 -143.31	-100.00 -85.41 -81.25 -77.08 -75.00 -70.83 -88.88 -88.88 -89.88	-09.33 -08.33 -06.20 -06.20 -04.16 -02.08 -00.00 -50.00 -47.91	-24.22 -35.41 -35.41 -35.41 -35.41 -33.33 -33.33 -33.33 -29.16	193.49 -0.17 -12.50 -8.20 13.65 16.39 43.75 4.17 4.17		10.3 : 1.0 : 0.8 : 1.0 : 1.7 : 1.0 : 1.7 : 1.0 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 :	11.8 : 4.3 : 4.3 : 2.7 : 2.2 : 3.5 : 3.5 : 4.0 : 8.9 : 9.9	1.3 : 1.2 : 1.5 : 1.7 : 2.3 : 2.0 : 1.6 : 2.3 :
5000-6000 8000-7000 7000-8000 8000-9000 9000-10000	;242.48 ;224.68 ;216.22 ;207.82 ;200.40	272.58 292. 287.19 278. 241.60 262. 227.00 249. 218.20 235.	56 306.50 88 290.56 56 276.19 30 262.25	314.58 298.19 284.16 270.66	:-179.16 :-175.00 :-179.79 :-179.95 :-133.33	-70.83 -78.00 -73.30 -65.10 -59.89	-47.91 -43.75 -43.36 -39.97 -38.59	-29.18 -25.00 -23.30 -20.05 -16.88	6.25 41.68 20.83 38.97 48.61	11	0.3 : 6.1 : 0.0 : 6.1 : 2.5 :	9.6 11.1 8.3 8.6 5.0	3.3 6.1 4.7 7.6
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	:188.10 :179.70 :172.90	208.80 224. 197.53 214. 187.30 205. 178.60 196. 171.10 187.	40 224.80 30 215.00 45 205.90	232.40 221.06 211.60	:-123,30 :-119,92 :-110,02 :-118,92 :-103,36	-53,38 -46,61 -43,36 -43,36 -39,97	-33.33 -29.88 -26.89 -26.99 -23.44	-18.66 -16.66 -13.41 -16.66 -16.66	26,69 19.92 26.69 33.33 42.54	11	2.7 : 2.7 : 2.3 : 2.8 : 2.0 :	6.6 5.1 4.0 5.5 4.6	8.0
18000-18000 16000-17000 17000-18000 18000-18000 18000-20000	:156.00 :150.90 :145.21	164.80 179. 158.80 171. 152.90 163. 147.20 156. 142.10 149.	90 181.90 90 173.90 40 188.40	194.58 187.00 178.59 171.00 163.30	1 -85.73 1 -77.83 1 -69.87	-39.97 -36.01 -33.98 -31.98 -32.03	-23.30 -22.03 -21.95 -20.00 -18.04	-13.41 -13.88 -13.98 -12.03 -12.03	20.05 19.84 27.83 28.01 14.18	11	1.8 0.8 0.2 0.8 0.3	3.0 3.0 1.7 1.5 1.3	9.5 F 7.0 I 9.2 I
20000-21000 21000-22000 22000-23000 23000-24000 24000-28000	1131.80 1127.28 1122.50	137.30 143. 132.80 137. 128.39 132. 123.70 127. 119.80 122.	50 145.80 50 139.60 40 133.50	156.30 149.70 143.54 137.60 131.10	: -51.97 : -45.93 : -38.01	-28.01 -23.98 -22.03 -20.00 -20.00	-17.96 1 -16.01 -15.94 -13.98 -13.98	-13.98 -12.03 -11.95 -11.95 -10.00	10.29 8.05 7.97 2.03 4.08	11	0.3 : 0.2 : 0.2 : 0.0 :	0.8 0.7 0.2 0.2	4.6
25000 - 28000 26000 - 27000 27000 - 28000 28000 - 28000 29000 - 30000	:111.00 :106.90	115.70 118. 112.00 114. 107.90 110. 104.30 108. 101.00 102.	50 118.40 50 113.80 40 109.00	126.00 120.84 115.90 110.80 106.60	1 -24.08 1 -24.08 1 -21.95	-17.96 -16.01 -16.01 -14.06 -13.98	-13.88 -13.88 -12.03 -12.03 -11.95	-11.95 -10.00 -10.00 -10.00	0,00 0,00 -3,96 -6.02 -6.02	11	0.0 0.0 0.0 0.0	0.0	2.6 : 2.1 : 0.9 :
31000-32000 32000-33000	96.90 93.80 90.20 87.30 65.20	97.80 99. 94.60 96. 91.00 92. 87.90 89. 85.70 88.	20 97.90 80 94.30 20 90.60	102.70 99.00 95.34 91.50 88.20	: -18.01 : -13.98 : -28.01	-12.03 -12.03 -12.03 -12.03 -12.03	-11.98 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-6.02 -8.02 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 : 0.0 : 0.0 : 0.0 :	0.7 1

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HOT FT MBL	1%	H PERCENTII	ES N BOX	95%	1%	DNE low	FERCEN 50%	TILES SOX	90X	11	PERCENT DUCT :	OCCURR SRLR	SUB :
SFC-800 800-1000 1000-1800	352.85 347.70 336.24	369.19 381 361.19 373 361.60 364	.75 383.58 .60 374.37	390.36 361.69	:-183.49 :-118.75 :-118.54	-89.88 -83.41 -83.33	-87.29 -90.41 -80.41	5.21 -37.50 -45.83	217.94 6.25 -18.66	::	4.8 1 0.3 1 0.8 :	12.0 ;	27.8 : 3.2 : 1.0 !
1500-2000 2000-2500 2500-3000 3000-3500	:324.06 :312.21 :297.75 :285.60	341.25 365 331.39 346 320.80 336 311.25 327	.08 358.06 .38 347.00 .19 337.78	303.99 354.78 344.69	(-120.83 (-133.33 (-124.31 (-116.66 (-106.25	-79.16 -75.00 -72.91 -70.63	-80.41 -58.33 -58.25 -54.16	-45.83 -45.83 -43.75 -39.58	-18.68 -16.68 9.73 -18.68	11	0.6 : 1.0 : 1.4 : 0.6 :	3.2 3.1 4.2 2.9	1.8:
3500-4000 4000-4500 4500-5000	:279.19 :269.80 :259.91	302.69 319 295.06 311 286.69 303	.28 322.80 .38 315.38	328.99 321.56	:-164.16 :-199.70	-86.88 -86.88 -75.00	-52.08 -50.00 -50.00	-37.50 -33.33 -29.16	25.02 24.77 43.75	11	1.8 i 4.2 i	4.0 i 7.8 i	3.7 8.4
5000-6000 6000-7000 7000-8000 8000-9000 9000-10000	1248.25 1228.55 1217.30 1208.57 ;200.20	272.38 291 256.01 276 241.50 263 228.30 249 218.00 236	.75 269.88 .19 275.75 .10 262.06	287.25 284.00 269.38	!~172.91 !~192.98 !~170.37 !~177.47 !~134.96	-72.91 -70.83 -70.05 -71.20 -56.64	-45.83 -43.75 -41.88 -39.97 -36.71	-27.08 -22.91 -20.05 -16.68 -13.41	39.56 50.00 48.74 33.33 50.00	11	0.9 4.8 4.6 6.6 3.0	9.9 : 8.2 : 11.2 : 5.1 :	7.0 7.2 10.4 11.0
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	:186.00 :179.45 :172.90	206.30 228 196.86 218 187.20 208 178.50 196 170.90 188	.00 225.80 .70 215.90 .90 208.80	232.00 221.40 212.20	-130.01 -108.64 -110.02 -114.13 -123.30	-60.02 -46.74 -43.36 -43.36 -38.97	-33,33 -29,95 -26,69 -26,69 -26,76	-18.66 -13.41 -13.28 -16.66 -18.66	36.69 36.71 36.59 26.69 28.95	11	2.6 : 1.9 : 1.4 : 2.4 : 2.8 :	8.5 : 4.5 : 5.3 : 5.8 :	10.8 : 7.4 : 9.9 : 8.3 : 7.0 :
15000-16000 18000-17000 17000-18000 18000-19000 18000-20000	:156.17 :151.05 :145.20	184.50 179 189.00 171 183.10 183 147.10 188 141.80 148	.90 162.30 .50 173.70 .90 165.60	187.00 178.20 170.40	: -98.34 ! -90.00 : -88.87 ! -84.53 ! -63.98	-38.97 -38.04 -35.75 -32.03 -30.00	-23.30 -23.30 -21.95 -20.00 -18.04	-13.41 -13.98 -13.98 -12.03 -13.98	20.05 23.90 17.96 22.03 4.98	1:	1.4 : 1.0 ! 0.3 : 1.3 ! 0.2 !	3.8 : 2.9 : 2.6 : 2.4 : 0.6 :	6.9 : 8.3 : 7.0 : 9.1 : 4.0 !
2000-2100 21000-22000 22000-23000 23000-24000 24000-25000	:131.30 :127.00 :122.30	137.10 142 132.60 136 128.20 131 123.60 128 119.40 122	.80 144.20 .70 138.30 .90 132.40	154.80 148.40 142.27 138.10 130.20	1 -52.03	-26.01 -23.98 -22.03 -20.00 -20.00	-17.86 -16.01 -15.84 -13.88 -13.96	-12.03 -12.03 -11.95 -11.95 -11.95	12.03 7.97 3.30 1.90 2.03	11	0.0 : 0.0 : 0.0 : 0.0 :	0.3 : 0.6 : 0.2 : 0.2 :	5.8 ; 1.0 ; 3.7 ; 3.9 ; 4.0 ;
25000 - 26000 26000 - 27000 27000 - 28000 28000 - 28000 28000 - 30000	1110.70 1108.50 1103.10	115.50 118 111.70 114 107.60 109 104.00 105 100.70 102	.00 117.30 .90 112.70 .90 109.20	125.00 119.90 115.17 110.09	1 -23.98	-17.96 -19.01 -15.94 -13.98 -13.98	-13.98 -12.03 -12.03 -12.03 -11.95	-11.98 -10.00 -10.00 -10.00 -10.00	-8.94 -4.01 -8.02 -8.02 -7.97	11	0.0 !	0.0 :	1.6 : 1.6 : 1.2 : 0.7 : 0.3 :
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	93.47 90.00 87.00	94.30 95 90.80 92 87.70 89	.10 100.80 .80 97.40 .40 94.00 .00 90.40 .50 87.40	98.50 95.00 91.20	1 -12.03	-12.03 -12.03 -12.03 -11.98 -10.00	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.08 -7.97	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 ! 0.0 ! 0.0 ! 0.0 !	0.0 : 0.0 : 0.0 : 0.0 :	0.0 1

1200Z FIGURE B-10-4-C B-170

HOWARD

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE	:		DUCT	S CENTIL	ES		SALA THA PE	S RCENTIL	FC		NORM	AL ERCENTI	. ec		50 £	ERCENTI	
FT MSL	1	%FRQ	10%	50%	90%	%FR0	10%	50%	90%	%FRC	10%	50%	90%	%FFQ	1.2	5.1%	9%
SFC-500	:	10.3	79	79	457 .	11.6	79	98	1161	95.0	2262	9921	35954	14.5	79	79	
500~1000	:	0.2	394	394	394 :	0.7	99	886	1476	3.5	96	7480	34581	0.7	98	197	2952
1000-1500	:	0.3	295	394	492 .	2.2	98	197	1201	2.8	98	7726	33814	0.5	197	5 0:	59.
1500-2000	1	1.0	197	295	591 :	1.3	98	146	1280	2.7	1358	5413	23695	. 7	194	497	689
2000-2500		1.0	295	295	1083	1.7	98	443	1230 :	2.0	522	11418	33046	ં. ક	497	1085	1101
2500-3000	:	0.5	492	492	591 .	1.2	98	492	787	2.8	98	5101	22711	1.5	96	591	2
3000-3500	:	0.7	98	246	394	2.7	98	394	925	3.0	98	3347	15617	0.3	78	: 97	1::03
3500-4000	:	0.7	295	295	492	1.8	98	246	955	3.0	98	2067	21431	i.ž	98	241	
4000-4500	:	1.5	295	394	787	2.5	98	394	945	2.7	98	2215	3099B	1.3	197	394	784
4500-5000		1.5	295	394	787	4.5	98	295	807 :	5.5	689	5413	3.349	1.6	515	492	1470
5000-6000	:	4.0	98	394	591	7.1	98	295	817	9.3	98	4232	29660	1.7	98	591	2712
4000-7000	1	4.8	98	295	492 :	9.5	98	197	689	12.3	98	374¢	29370	4.8	98	492	1963
7000-8000		4.3	98	295	492	6.8	98	295	856	10.6	98	4232	27691	2.8	98	794	1181
8000-9000	;	5.3	98	197	492 :	7.0	78	76	492	12.0	98	3051	26432	5.6	98	54:	1260
9000-10000	i	2.0	98	295	463	4.7	98	295	492	8.0	96	3543	25654	6. 5	°6	94	915
10000-11000		2.5	98	197	394	5.5	98	295	443	14.0	197	4970	24640 .	6.0	98	492	: 280
11000-12000	:	2.3	98	197	295	4.5	98	197	394	8.5	98	2707	25587	5.1	98	492	1575
12000-13000	:	2.2	98	197	354 .	3.8	98	197	394	0.7	98	5741	22671	š.:	96	495	1141
13000-14000		2.5	98	98	236	4.8	98	197	384	9.0	98	3101	21627	a . 5	1 7 7	49:	::0:
14000~15000	:	1.8	98	98	276	4.5	98	197	295	6.0	98	7956	20407	4.6	5 G	394	956
15000-16000	-+-	1.5	98	98	197 .	2.9	98	197	328	 8. i	98	3641	19686	5.0	98	459	
16000-17000		0.8	164	164	728	2.7	121	164	328	8. 0	164	2674	18.38	a. 5	164	-04	1:49
17000-18000		0.2	164	164	164	1.3	164	164	492	5. e	951	17061	17766	4.7	:64	492	1148
19000-19000		0.5	164	164	164	1.5	164	164	164	8.8	164	3527	10733	7.2	164	328	820
19000-20000		0.3	164	164	164	1.5	164	164	164	6.3	492	13862	15600	4. 3	164	228	869

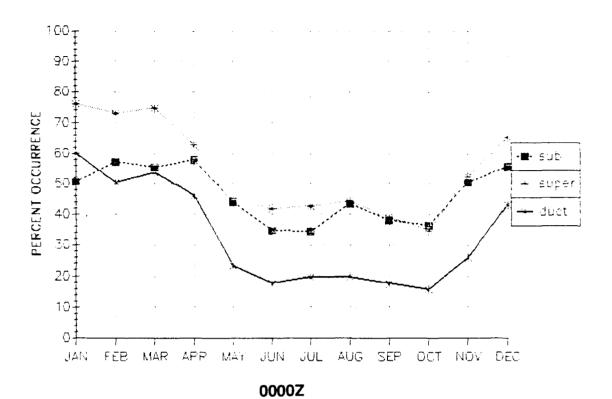
0000Z

BASE			DUCT	B RCENTIL	co .		SRLF THE PE	RCENTIL				NORM THE P	AL ERCENTI	. 50		SUE THE FE	ERCENTI.	
FT MBL	:	%FRQ	10%	50%	90%	%FRQ	10%	5 0%	90%	%FI		10%	50%	90%	%FFQ	1 %	50%	90%
9FC-500	- +-	4.8	79	79	177 :	12.5	79	79	886	96	 .6	1083	8366	35054	27.5	79	79	274 :
500-1000	:	0.3	394	689	984 :	2.6	98	492	1201	. 6	. 6	98	5019	34522	ം.ക	98	197	1575 :
1000-1500	:	0.6	295	344	886	1.6	78	689	1604	: 3	- 1	2067	55:2	33991	U. 2	295	295	295 :
1500-2000	:	0.5	197	295	394	1.1	98	492	1101	2	. 4	236	12156	33626 :	0.3	492	2018	3545
2000-2500	:	0.8	295	295	689	1.6	217	591	866	1	. O	1772	18372	33105 :	୍. 8	98	591	689
2500-3000		1.1	197	295	689 .	2.3	98	344	886	2	. 9	98	4626	32583 .	1.0	-28	492	2165
3000-3500	;	0.5	197	295	689 :	1.1	98	394	591	. 2	. 7	98	2756	32042 :	€.6	295	640	886
3500~4000	:	0.5	197	394	492 :	1.0	98	295	886	. 1	. 6	118	837	29928	1.0	591	1132	2067
4000-4500	1	1.6	100	344	482 :	3.5	96	492	758	2	. 1	138	886	20906 :	1.3	유민	492	e 27
4500-5000	1	3.5	98	295	463 :	5.6	98	197	787	. 7	. 7	1093	7553	30349	2.7	98	295	1260 .
5000-6000		4.3	98	295	492	6.9	78	197	886	9	. 9	98	2264	29463	4.2	98	591	1378
6000-7000	:	3.9	197	295	640	7.8	98	295	669	12	. 6	98	2543	28675 .	5. 1	98	689	1278
7000-8000	;	3.7	1.28	295	492 .	6.6	98	295	650	. 9	. 8	98	2412	27563 :	4.5	197	689	1378 .
8000−900 0	:	5.8	98	295	492	9.4	98	197	492	. 16		98	2953	26618	6.7	98	492	1280
9 000-10 00 0	:	2.2	98	197	394	4.5	98	246	492	- 9	. 8	98	689	25772	8.2	98	394	984
10000-11000	:	2.4	98	148	325 :	8.2	98	295	394	14	. 6	98	2953	24640 :	6.6	98	492	1083
11000-12000	;	1.9	98	148	364	4. Ü	98	197	423	. 9	. 6	98	2756	23656 :	4.6	우흡	492	1004
12000-13000		1.1	98	197	295	4.8	98	197	374	. 9	. 3	98	3347	22317 :	7.4	98	294	1161
13000-14000	:	2.4	98	197	295 :	5. 1	98	197	364	. 11	. 2	197	4691	21746 :	4.6	: 18	492	866
14000-15000	:	2.6	98	148	197	5.4	98	197	295	9		118	20014	20703	5.6	167	443	817 .
15000-16000		1.4	98	98	197	3. 2	98	197	266	8	. 6	295	2822	19630 .	5.9	197	394	62 v
16000-17000		0.6	98	148	164	2.9	161	164	328	. 9	, Ù	361	4101	18701	5.9	164	128	997
17000-18000	:	0.3	164	164	164	2.4	164	164	328	: 7	. 2	164	3927	17717 .	5.4	164	328	700 :
18000-19000	:	1.3	164	164	164	2.2	164	164	326	. 10	. 7	705	13616	16848	7.0	164	410	820
19000-20000	:	0.2	164	164	164	'U.6	164	164	328	; 4	. 3	1148	8246	15748	4.0	164	492	

1200Z

FIGURE B-10-4-D B-171

AP PERCENT OCCURRENCE FREQUENCY



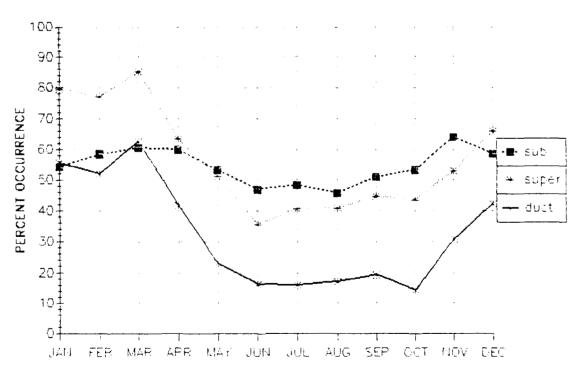
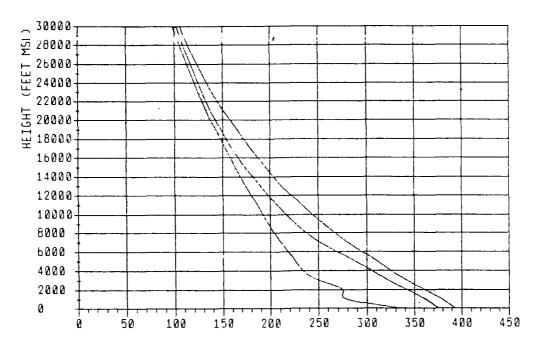
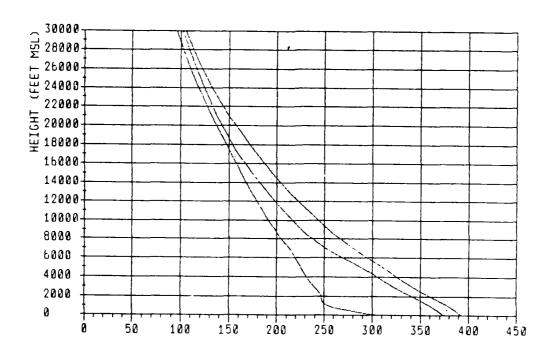


FIGURE B-10-5 B-172

1200Z



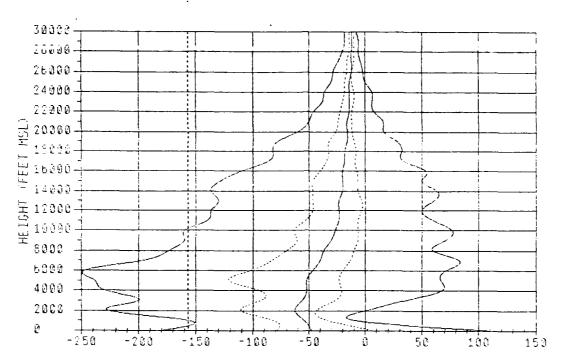
N (N-Units) 0000Z



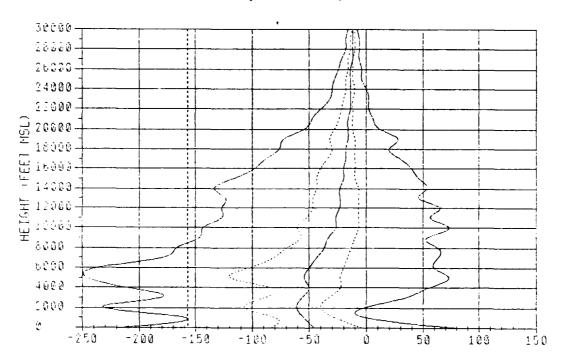
N (N-Units) 1200Z

FIGURE B-11-1-A B-173

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-11-1-B B-174

GRANTLEY ADAMS

WET SEASON

FT MSL	18	N PERCENTILES	90%	00%	1%	DWD 10%	H PERCENTILES TON BOX	55%	: :	PERCENT DUCT 1	OCCURR BRLR :	ENCE :
#FC-800 800-1000 1000-1800 1800-2707 2000-2800 2800-3000 3900-3800 3900-4900 4000-4800	1352.05 :267.61 :264.60 :271.44 :248.46 :244.60 :250.69 :237.27 :237.27 :231.10	368.37 379.18 360.76 372.56 363.88 365.00 449.86 385.00 333.60 347.48 320.19 335.69 307.76 324.68 298.00 316.00 268.50 307.76 278.18 289.69	388.08 393.00 374.38 168.78 348.78 335.80 327.08 319.19 311.88	300.04 371.06 361.69 301.69 341.60 333.04	1-248.88 1-118.75 1-133.33 1-183.73 1-243.08 1-202.08 1-202.68 1-208.79 1-208.79	-112.80 -72.91 -72.91 -87.80 -112.80 -108.26 -89.63 -89.68 -89.41	-39.08 84.5 -02.08 -28.6 -02.08 -29.1 -64.20 -33.3 -82.50 -43.7 -60.41 -38.6 -08.33 -33.3 -04.18 -27.0 -02.08 -22.8 -60.00 -20.8	9 0.00 -2.77 5 -14 68 -19.27 6 12.50 3 35.41 8 49.29 1 66.66	111111111111111111111111111111111111111	1.0 : 4.1 : 7.4 : 7.0 : 4.7 :	16.5 (2.1 (3.8 : 10.0 : 14.6 : 15.6 : 10.9 : 10.2 : 8.0 (13.6 :	48.0 (1.2 : 1.0 : 0.5 : 1.0 : 0.5 : 4.9 : 6.0 : 7.9 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2 : 10.2
5000-8000 6000-7000 7000-8000 8000-8000 8000-10000	1224.28 1218.80 1208.60 1202.50 [186.61	257.19 286.18 237.00 288.69 222.70 202.60 212.20 238.00 203.50 226.10	300.78 284.68 270.28 287.00 244.20	283.00 278.00 268.82	1-266.62 1-266.62 1-193.36 1-191.27 1-163.36		-50.00 -20.6 -48.61 -18.8 -40.10 -13.2 -36.59 -10.0 -33.33 -6.6	2 66.66 8 82.06 3 63.41	1:	6.4 :	21.7 : 18.2 : 13.7 : 10.8 : 8.4 :	13.1 12.2 13.8 14.7 15.3
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1184.10 1178.08 1172.48	186.10 218.10 188.20 208.20 182.40 197.30 175.80 188.80 189.41 180.20	233.00 222.20 212.80 204.20 188.70	230.30 210.40 210.00	1-160.02 1-133.33 1-139.87 1-126.69 1-133.33	-63.28 -53.20 -50.00 -40.61 -46.74	-26.88 -6.6 -26.76 -6.6 -23.30 -6.6 -23.30 -6.6	4 08.73 4 56.64 4 58.84	11		10.0 : 7.2 : 7.2 : 8.8 :	20.3 : 17.7 : 15.8 : 15.0 : 14.8 :
18000-18000 18000-17000 17000-18000 18000-18000	1156.04	163.60 171.90 188.10 184.70 182.70 187.78 147.00 181.70 142.10 148.70	187.80 178.80 171.90 184.40 188.80	188.40 177.30 188.78	1-128.30 1-102.04 1-82.03 1-77.86 1-63.88	-43.36 -38.04 -33.88 -31.88 -30.00	-20.05 -8.6 -20.00 -9.8 -18.04 -10.0 -17.98 -7.8 -18.01 -12.0	8 48.01 0 30.00 7 38.66	11	0.7 : 0.7 t	6.9: 4.6: 2.3: 2.2: 0.7:	15.4 15.8 12.0 15.7 6.5
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1130.71 1128.81 1120.80	137.40 140.70 132.90 135.90 128.80 131.40 123.80 128.80 118.80 122.30	180.20 144.00 136.40 132.60 127.40	185.00 148.50 142.50 136.70 130.60	1 -48.01 1 -43.98 1 -38.01	-26.01 -22.03 -20.00 -30.00 -18.04	-18.01 -12.0 -18.94 -12.0 -13.96 -11.9 -13.98 -11.9	3 10.00 5 7.97 5 3.98	11	0.0 :	0.4 : 0.2 : 0.1 : 0.1 : 0.3 :	7.3 . 5.6 : 5.5 : 5.0 : 5.2 :
27000-28000 28000-28000	1107.96 1105.70	118.00 118.30 112.20 114.40 108.10 110.40 104.80 108.50 101.20 103.00	122.40 117.80 113.20 108.70 108.00	120.50 115.60 110.70	1 -28.77 -25.97 -22.03 -20.00 -17.86	-17.96 -16.01 -14.08 -13.96 -13.98	-13.88 -11.8 -12.03 -11.8 -12.03 -10.0 -12.03 -10.0 -11.85 -10.0	5 -3.98 0 -8.02 0 -8.97	11	0.0	0.0 0.1 0.0 0.0 0.0	3.0 2.0 0.7 1.0 0.4
3000-31000 31000-32000 32000-34000 34000-34000	1 88.30	\$8.00 \$8.60 84.80 \$8.30 \$1.20 \$2.80 88.10 \$8.40 88.00 \$6.80	101.40 98.00 94.50 90.80 67.70	\$5.60 \$1.60	1 -18.01 1 -23.86 2 -18.01 1 -27.86 1 -23.86	-12.03 -12.03 -12.03 -12.03 -10.00	-10.00 -10.0 -10.00 -10.0 -10.00 -10.0 -10.00 -7.8	0 -8.02 0 -7.97 0 -7.97	1 1	0.0 :	0.0 : 0.0 : 0.0 : 0.0 :	0.2 : 0.3 : 0.1 : 0.0 :

0000Z

EGT FT MBL	1%	# PERC	ENTILES SON	90%	99X	11	DND 10%	PERCEN	TILES SON	99X	; ;	PERCENT DUCT :	OCCURR SRLR :	SUB :
SFC-500 500-1000	1344.15	360.78	378.69 371.56	307.00		1-274.94	-141.66 -70.83	-43.78 -47.01	33.33 -20.83	140.09	11	15.3 /	20.8 :	33.1 :
1000-1500	1284.82	381.37	384.88	374.18		1-120.65	-72.01	-80.00	-28.00	0.00	11	0.8	3.0	1.7
1800-2000	1280.82	343.69	386.86	365.69	371.38	1-187.50	-89.58	-56.25	-31.25	-0.25	1 1	4.1	9.7	0.9
3000-3800	1247.03	332.80	340.00	386.06		1-237.80	-110.41	-80.41	-30.88	-18.46	1.1	6.3 t	14.8	1.0 t
2800-3000	1243.50	319.56	338.19	348.86	301.77	1-220.63	-104.16	-60.41	-30.88	10.42	11	6.5 1	14.9	2.3
3000-3800 3800-4000	1239.30	307.71 297.78	324.50 315,72	338.38 327.08	333.80	1-188.58	-93.75	-66.26	-33.33	26.03	1:	4.1	9.7 I 7.9 I	3.4 1
4000-4800	1231.90	288.19	307.56	319.21		1-179.16	-83.33 -78.16	-84.16 -80.00	-29.16 -23.30	37.50 47.14	11	4.1 1	8.8	4.0 I 5.2 I
4800-8000	228.11	279.38	300.06	311.75		1-204.16	-05.41	-60.00	-22.91	40.00	11	5.7	9.7	8.5
8000-6000	1224.00	259.19	286.96	300.88		1-260.37		-52.08	-22.91	46.46	11	13.6 :	23.4	11.9
€000-7000	1217.20	238.40	260.63	284.80		1-223.30	-86.61	-47.91	-20.08	60.41	1 1	10.1	10.3	11.1
7000-8000 8000-8000	1210.60	224.00	252.80	270.50	278.97	1-176.68	-79.16 -66.66	-43.36 -36.71	-16.66 -13.28	60.02	: 1	0.1 (4.8 ;	12.7 :	11.8 :
9000-10000		204.40	226.20	243.80		1-143.23	-56.64	-33.33	-10.03	63.26	11	3.4	7.2	13.7
10000-11000	1186.70	196.70	216.30	232.90	241.80	:-140.61	-60.02	-28.69	-6.64	76.60	-++	4.3 :	8.6 :	19.9
11000-12000		189.70	206.30	222.40		1-120.32	-80.00	-26.65	-6.64	63.38	: :	3.4 :	7.7 :	18.6 :
12000-13000		182.80	197.50	213.10		1-120.00	-80.00	-23.44	-0.84	63.28	1.1	2.9 :	8.3	18.3 t
18000-14000		178.00	189.10	204.30		1-125.30	-43.36 -46.61	-23.30 -23.30	-8.84 -8.77	46.61	11	3.9 (7.0 1 6.7 1	18.1 15.4
14000-10000	-+							-25.50			-++			
15000-16000		165.90	172.70	167.30	102.01	(-115.26	-43.36	-20.05	-10.03	43.36	1.1	2.8 1	8.8 :	13.3 /
16000-17000		198.30	168.60	179.40	186.10	-93.98	-40.00	-20.00	-10.00	36.37	1.1	1.0 :	3.3 :	12.4
17000-18000		192.60	150.20 151.90	171.30	176.80	-78.01	-33.98 -30.00	-18.04 -17.86	-10.00 -10.00	25.96	11	0.4 :	2.8 1	10.2
19000-20000		142.10	148.70	156.10		-61.32	-30.00	-16.01	-13.99	13.96	- 11	0.0	0.6	6.3
	- •					+					-++			;
20000-21000		137.40 132.80	140.60	148.50		1 -56.01	-26.01 -22.03	-18.01 -18.94	-12.03 -12.03	8.05 3.98	11	0.3 :	0.5 :	5.7 I
22000-23000		128.60	131.30	137.30		-30.04	-20,00	-13.98	-11.95	3.73	11	0.1	0.1	3.6
23000-24000		123.90	128.70	131.70		-30.00	-18.04	-13.88	-11.95	0.00	- i i	0.0	0.1	3.0 i
24000-25000	1115.26	110.80	122.20	128.80	129.70	1 -30.00	-17.96	-13.90	-11.95	~1.95	11	0.0	0.0 1	2.4
25000-26000		119.00	118.20	121.70		1 -24.06	-10.01	-13.90	-11.95	-3.90	11	0.0:	0.0:	1.4
26000-27000		112.10	114.80	117.30		-23.98	-18.01	-12.03	-11.95	-8.02	t t	0.0	0.0	0.7
27000-28000		108.00	110.20	112.60		1 -20.00	-14.06	-12.03	-10.00	-0.02	11	0.0	0.0:	0.0
28000-30000 28000-30000		104.40 101.10	108.30 102.80	108.40 104.70	106.20	1 -18.04	-13.98 -13.98	-12.03 -11.95	-10.00 -10.00	-8.02 -7.97	11	0.0 1	0.0 :	0.8 1
30000-31000	1 92.30	97.80	99.50	101.10	102 40	1 -14.08	-12.03	-10.00	-10.00	-7.97	-++	0.0 1	0.0 1	0.1 1
\$1000-\$2000	1 89.01	94.70	96.20	97.80		1 -26.01	-12,03	-10.00	-10.00	-7.97	1:	0.0 1	0.0	0.2 1
32000-33000		91.10	92.70	94.30	96.30	1 -13.98	-12.03	-10.00	-10.00	~7.97	11	0.0:	0.0 :	0.0 :
33000-34000		.00	89.30	00.70	91.40	1 -22.03	-11.98	-10.00	-10.00	~7.97	11	0.0	0.0 1	0.0 1
34000-35000	79.90	85.90	86.80	87.70	88.20	1 -21.96	-10.00	-10.00	-7.97	~7.97	1.1	0.0 (0.0:	0.0 :

1200Z FIGURE B-11-1-C B-175

GRANTLEY ADAMS

WET SEASON

THICKNESS STATISTICS

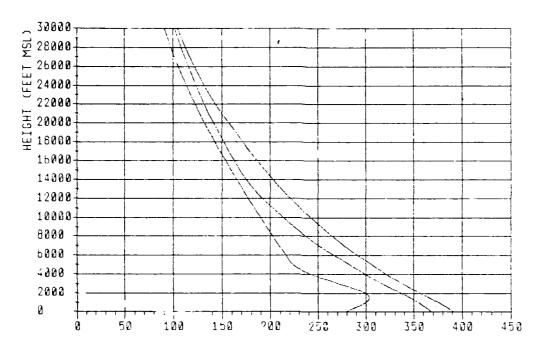
BASE FT MSL	MERQ	DUCT THE FE 10%	S RCENTIL 50%	ES 90%	%FAC	SRLR THE PE 10%	S RCENTIL SOX	.ES 90% .	%FR0	NORM THE P 10%	AL ERCENTI 50%	_ES :	%FRO	SUB THK PE 10%	FCENTII	_ES 90% :
SFC-500	10.6	141	141	240	16.5	98	141	394	99.0	1378	4626	34877 :	48.0	141	240	300
500+1000 .	0.3	197	394	492	4	98	197	1378	1.1	98	4036	34680 :	0.4	98	98	886
1000-1500	ა. 8	118	295	551	2.4	, 4	492	1280 :	1.9	98	5512	33912 :	0.3	197	492	591
1500-2000 .	3.8	99	394	669	7.9	98	492	1083	3.8	453	4134	33597	Ú.2	394	591	591 .
2000-2500 :	5.2	108	295	591	9.1	98	443	1083	6.9	937	2756	15387	0.8	1.78	492	1437
2500 - 3000	4.0	197	394	738	8.6	98	344	1073	10.9	96	2215	12975 .	2.4	98	492	886
さいぐり~ さきしむ	2.7	98	295	689	5.3	98	344	837 :	9.2	98	1673	8514	3.1	197	394	686
3500-4000	3.0	98	295	689	6.3	98	295	787	6.2	98	1280	10088 .	3.6	197	394	984 .
4000-4500 :	3.4	98	394	689	4.9	98	394	797	9.4	92	935	5715 .	5.∪	98	492	787
4500-3000	6.7	9€	295	591	10.4	98	195	757	11.8	98	1575	12041 .	6. 1	98	295	886
5000-6000	11,0	197	295	591	16.4	96	298	787	25.2	98	2654	29384	9.5	9	394	984
6 000-7000	9.0	78	394	591	14.4	98	295	689	21.4	우골	2654	28380 :	b.7	98	443	1181
7000 -8 000	5.4	98	295	492	10.4	98	295	689	.8.7	98	2165	21332 .	10.4	99	492	1181
3 000- 9 000	٥.٥	98	295	394	8.4	98	295	492	17.2	98	2165	26481 .	10.1	98	497	1.290
9000-10000 .	2.7	98	197	294	7.3	98	197	492	14.0	98	1280	25:52	10.5	98	492	984
: 0mm0=11000	5.4	96	167	295	8.9	98	197	794	22.1	98	2313	24551	13.1		491	1299
11000-12000	3.3	98	10-	295	0.1	96	197	29≝ .	14.8	78	1870	22459	10.2	78	472	1280
12000-17000	4.	98	: 4-	295 .	٠.٦	98	; 57	794	14.5	96	2165	22454	10.4	98	492	1122
17, P-14000 .	4.2	98	197	295	5.3	98	98	しタフ	16.0	구별	107	31628 :	10.8	98	492	1085
14000-15000	1.6	75	99	197	8.1	98	197	295	16.1	96	2:33	29694	10.2	48	794	984
1500-16000	3.4	99	98	97	5.4	98			14.	98	1542	19625	10.9	98	497	964
1 6 000-17000	9	: 21	164	164	4.1	99	164	348		702	3281	187.1	1 4	164	492	920
170018006	:.7	164	164	: 64	2. 1	:64	164	164	:0.5	:28	4	7717	6. 2	164	497	964
18000-19000	11.7	164	164	712	2.2	164	154	154 :	14.8	497	10745	16733 .	12.9	164	7.9	820
\$ 90000 - 20000 T	9.7	164	164	164	6.7	: 64	164	164	7.0	935	14928	15746	6.4	164	491	820

0000Z

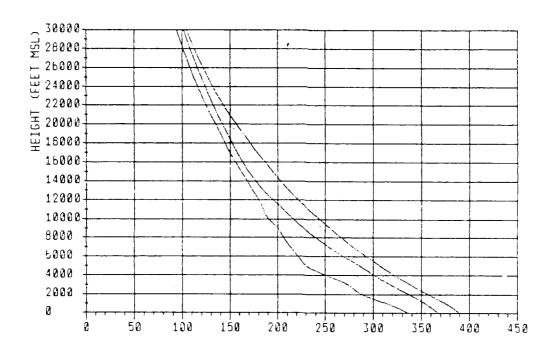
BASE		DUCT	S ERCENTIL	.E.S		SRLA TH: FE	S BEENTI	ES		NORM	AL ERCENTI	LES :		SUE THE PE	ACENTI.	_ES
F7 75L	KEFC	10%	5 . %	٥ •	NERD		50.74	90%	KFRO	1.0%	5/%	90%	WERD	1.07	5. 7.	90%
SFC-5	15.3	141	240	24.	20.5	50	:41	240	98.1	1476	4964	74877	 ::.:	141	240	228
500-10-00	0.1	197	:97		5	98	-0-	1476 .	1.5	78	118:	34522 :	0.6	98	98	2992
1000-1500	υ. ₇	207	394	591	2.4	157	591	1080	1. "	167	6297	14119	0.4	96	246	1275
1500-2000	7.9	107	295	492	7.5	99	492	1033 .	5.1	837	1917	15982 .	0.2	98	295	472
2000-2500	4.5	197	-94	689	9.3	98	492	1085 .	7.5	: 38	3051	10208	0.7	115	394	1142
2500-3000	4. i	98	794	59:	7.0	78	295	686 :	11.3	÷e	2210	8563	1.7	197	591	1220
きのウェー ききりゃ	2.5	: 48	- 44	291	4.5	08	295	817	8.0	48	1969	2757	:. 4	98	:94	10.4
3500-400c	2.8	유급	295	492	4.4	주면	295	994 .	5.9	98	: 476	12277	2.1	98	*14	1171
4000-4500	I.,	90	794	59.	5.5	오면	794	787	6.4	58	964	ESCI	5.5	98	591	9:5
4500-5000	4.a	106	295	591	6.3	96	295	6-30°	7.5	98	1575	13826	5.7	: 77	195	71.9
5000-6300	11.0	98	394	571	20.7	98	275	787	24.1	98	4:56	29630	9.5	98	394	984
6 000-7000	7.6	. 47	295	497	17	98	295	689	20.6	98	3445	28479	8.0	197	491	1.778
7000 3000 .	4.7	98	295	794 .	9.5	98	295	689	16.1	98	2756	27494	8.1	96	492	1280
8 000- 9 000	3.9	96	295	394	8.2	98	295	491	15.9	98	1772	26116 .	9.7	48	794	1280
9000-10000 .	3.0	98	. ə	594	6.1	96	275	:94	: 5.2	98	1378	25506	9.2	98	492	984
10000-11000	4. !	99	197	295	8.0	96	197	294	19.7	98	2116	24738 :	13.5	78	394	1983
11000-12000	7.1	98	197	295	6.3	96	; 5 -	: 04	15.6	÷8	1670	23577	10.7	98	492	1.083
12000-15000	2.a	ବ୍ୟ	:48	266	5.7	98	:97	295	14.8	98	2110	22504	11.5	98	492	:142
12000-14000	3.6	98	197	295	6.5	98	197	295 .	:5.1	98	2559	21616	:0.8	98	492	1000
14000-15006 .	3.0	96	98	197	6.4	98	98	295	15.4	98	2428	20703 :	10.5	98	492	984
19000-15000	2.3	76	78	234	5.2	98	197	295 ,	13.1	 98	3675	19620	9.4	98	394	866
10000-17000	1.0	118	1 04	208	2.8	121	164	228	11.9	276	2642	18672	9.0	164	491	984
17000-18000	0.4	164	164	164	2.6	154	104	728	9.5	492	6316	17717 :	7.4	164	492	elo
18000-19000	0.6	164	104	164	2.6	164	164	164	: 5. 7	201	159:2	16700	10.8	1 -4	326	620
19000-20000	0.0				٥ . ن	164	164	:64	5.6	591	14928	15748	5.0	164	492	820

1200Z

FIGURE B-11-1-D B-176



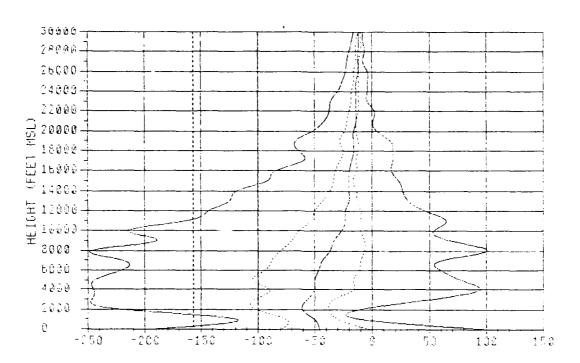
N (N-Units) 0000Z



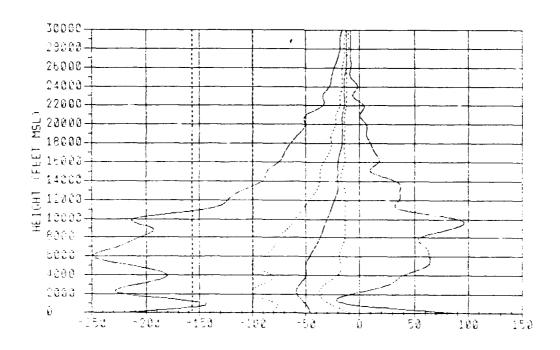
N (N-Units) 1200Z

FIGURE B-11-2-A B-177

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-11-2-B B-178

GRANTLEY ADAMS

WET-DRY TRANSITION

FT MEL	1 18	N PERC	ENTILES	90%	9 9 K	1%	DWDE 10%	PERCEN	TILES BOX	88×	: :	PERCENT	OCCURRE BRLR	NCE :
\$FC-800 \$00-1000 1000-1800 1800-2000 2000-2800 2800-3000	1338.00 :330.10 318.37 304.48 200.80	383.78 346.68 340.06 333.08 323.65 308.12	360.00 308.69 302.66 348.00 332.03 326.76	377.78 372.67 384.08 388.00 347.50 337.58	361.81 372.78 382.81 383.76 344.06	:-219.58 :-108.33 :-144.85 :-128.25 :-227.77 :-251.15	-68.78 -70.83 -77.08 -100.00 -112.80	-39.58 -43.75 -43.75 -45.83 -56.25 -60.41	38.48 -27.08 -27.08 -28.18 -33.33 -37.80	112.18 -2.08 -5.65 -16.88 -10.08 -4.17	11	7,6; 0.6; 1.3; 2.5; 5.7; 8.2	22.6 : 1.3 : 2.3 : 6.5 : 12.4 : 18.0 :	34.6 : 0.8 : 0.6 : 0.2 : 0.8 : 1.1 : .
3000-3500 3500-4000 4000-4500 4500-5000	1241.80 1238.27 1238.21 1232.28	296.39 287.69 278.10 271.00	310.46 306.88 299.00 291.50	327.50 318.00 310.87 304.06	328.28 319.28 312.38	1-218.78 :-209.27 :-233.33 !-267.86	~87.81 ~93.76 ~88.68 ~83.76	-88.25 -52.67 -50.00 -47.81	-28.16 -20.83 -12.50 -6.25	21.44 81.02 73.52 100.62	:: :: :: ::	6.3 4.9 5.5 8.3	12.4 : 11.0 : 9.3 : 13.9 :	4.2 : 9.0 : 11.2 : 15.0
8000-8000 7000-8000 8000-8000 9000-10000	1215.79 1209.60 1202.74 1195.50	228.00 217.40 208.20 200.20	209.50 240.00 222.35 207.30	278.78 265.60 251.40 237.80	287.38 274.00 281.81	:-318.88 :-280.08 :-289.84 :-238.88	-110.02	-43.75 -39.56 -33.33 -26.69	-12.42 -10.03 -10.03 -13.41	64.60 83.33 90.62 83.38	::	18.5 18.0 15.4 9.4	23.5 21.2 20.4 11.7	15.2 16.2: 15.8 11.5:
10000-11000 11000-12000 12000-15000 15000-14000 14000-15000	1181.87	193.20 186.20 178.90 173.50 187.80	197.80 190.80 183.60 177.10 170.80	225.90 213.80 201.40 180.30	228.40 218.81 208.80	:-163.33 :-133.33 :-130.37 :-94.33 :-70.05	~83.38 -43.38 -38.71 -29.85 -26.68	-23.30 -23.30 -20.05 -20.05 -10.82	-18.92 -19.92 -16.66 -16.66 -18.66	38.71 23.34 19.82 3.39 7.05	11	7.9 : 3.3 : 3.5 : 2.1 : 0.6	7.3 5.6 5.6 3.1 1.5	10.0 8.5 5.2 3.1 3.3
15000-16000 16000-17000 17000-18000 16009-18000 18000-20000	1162.67 1147.17 1141.73	162.30 187.00 151.90 148.38 141.50	165.20 180.10 154.40 148.10 143.80	173.00 188.10 158.75 154.35 147.92	181.28 172.65 166.25	-63.28 -56.01 -38.65 -41.07 -36.01	-23,44 -22.03 -20.00 -20.00 -18.04	-16.68 -17.98 -16.01 -16.01 -18.01	-16.66 -15.94 -15.94 -13.98 -13.98	3.27 0.00 5.94 1.95 -7.97		1.0 0.4 0.2 0.6 0.0	1.5	1.9 2.5 3.5 3.5
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	1128.70 1122.30 1117.80	136.80 132.50 128.20 123.50 118.50	138.20 134.70 130.40 128.90 121.50	142.80 137.90 133.30 128.60 124.00	146.84 140.20 134.70	-27.86 -26.01 -26.04 -23.88 -25.84	-17.96 -17.96 -16.01 -16.01 -15.94	-10.94 -13.98 -13.98 -13.98 -13.98	-13.98 -13.98 -12.03 -11.95 -11.95	-8.02 -10.00 -7.97 -7.97 -8.02	::	0.0 0.0 0.0 0.0	0.2 : 0.2 ! 0.0 : 0.0 :	1.3 0.8 0.8 0.4 1.1
25000-26000 28000-27000 27000-28000 28000-28000 28000-30000	:108.08 :108.28 :101.22 : 37.41 : 94.09	115.50 111.80 107.60 104.10 100.70	117.60 113.70 109.60 109.80 102.40	119.70 115.70 111.70 107.50 104.00	118.80 114.10 109.30	: -21.97 : -18.59 : -17.96 : -10.01 : -16.01	-14.08 -14.08 -13.98 -12.03 -12.03	-12.03 -12.03 -12.03 -11.95 -11.95	-11.95 -11.95 -10.00 -10.00	-6.02 -10.00 -10.00 -10.00 -10.00	::	0.0 : 0.0 : 0.0 : 0.0 :	0.0	0.0 0.4 0.0 0.0
30000-31000 31000-32000 32000-33000 33000-34000 34000-38000	90.65 67.42 64.14 60.82 78.71	97.80 94.30 90.80 87.70 88.50	\$9.10 \$5.90 \$2.40 88.00 46.50	100.80 97.40 84.00 80.40 87.50	98.80 85.00 91.10	: -14.06 : -14.06 : -14.01 : -18.04 : -16.01	-12.03 -12.03 -12.03 -11.85 -10.00	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.05 -7.87	-7.97 -7.97 -7.97 -7.97 -7.97	::	0.0 : 0.0 : 0.0 : 0.0 :	0.0:	0.0 1

0000Z

HGT FT MSL	1 1%	W PERCI	ENTILES 50%	PON	99%	1%	DW1 10%	B PERCEN	TILES DOX	99%	::	PERCENT DUCT :	OCCURR SRLR :	ENCE :
#FC-500 500-1000	:337.62	301.87 345.76	365.00	378.39 370.56	340.38	: -93.76		-45.83 -41.86	20.83 -22.81	\$1.38 12.06	11	13.9 : 1.0 : 1.0 ;	23.0:	27.0 1.8 0.8
1000-1500 1500-2000	:265.44 :261.64	337.87 331.26	351.76 345.56	383.00 355.56	363.21	:-120.31	-75.00	-43.78 -48.83	-28.00 -27.08	-8.25 -8.33 -10.42	::	2.2	6.7	0.6
2000-2800 2800- 3 000	:249.82 :248.70	322.07 310.50	387.80 326.38	347.19	344.66	1-214.00	-108.33	-84.16 -86.25 -84.16	-31.28 -33.33 -27.08	9.59	1:	7.3	17.9 :	2.6
3000-3800 3800-4000	1241.13	200.78	315.88 307.25	327 67 320.00 312.37	326.68	:-208.25 :-189.54 :-158.25	-61.25	-80.00	-22.91 -10.00	45.39	: :	3.2	7.3:	8.2 1
4000-4800	1284.82	282.08 278.00	300.06 292.88	305.19		1-242.8		-45.83	-14.86	51.69	-++	4.5	12.3	9.7 :
8000-8000 8000-7000	1225.61	256.25 232.40	280.00	294.75		1-282 4	-110.41 -113.28	-47,91 -48.83	-10.42 -16.66	50.00	: :	18.6 : 17.4 :	25.9 : 21.4 :	10.2 : 13.3 :
7000-8000	1211.15	217.71 208.20	242.50 223.80	266.86 253.60		:-310.00		-39.56 -33.33	-16.66 -16.66	66.66 56.70	11	14.3	17.2 :	12.3
	1194.90	200.40	208.10	240.70		1-253.3		-26.69	-16.66	68.88	-++	9,1:	10.9:	10.5
10000-11000		193,40 186,30	198.30	228.40 214.30	227.36	1-212.2	-40.61	-23.30 -23.30	-19.92 -19.92	28.89 23.30	11	4.4	9.5 6.2 3.0	6.0
12000-18000 18000-14000	1170.40	180.10 173.60	183.90	203.10 182.60	207.23	-98.8	3 -30.07	-20.08	-16.66	23.30 3.39 -3.39	11	1.2	2.4	3.0 :
14000-15000	- •	187.80	171.10	162.60	198.60	1 -60.0		-10.92 -10.92	-16.66	0.00	- - + -		1.8	1.0
15000-16000	1183.62	182.40	168.50	166.98	181.78		-22.55	-17.86 -16.01	-15.94 -15.94	3.62 6.02	1 1	0.0	1.0	3.8
17000-18000	1142.71	181.90 148.30 141.50	154.80 149.20 143.90	184.10	165.40	1 -49.7	1 -20.00	-16.01 -16.01	-13.90 -13.90	-2.03 0.16	: :	0.0	0.8	3.4 1
19000-20000	- •	130.90	139.20	143.20	150.02	• •		-10.04	-15.90	-3.96	++	0.0	0.0	1.6
21000-22000	1128.43	182.40 128.20	134.70	138.00	144.75	1 -32.0		-13.98 -13.98	-13.90 -12.03	-7.97 -6.02	: :	0.0	0.0	1.0
28000-24000	1118.26	123.60	128.90	120.00	133.03			-13.98 -13.98	-11.95 -11.95	-7.97 -7.97	1 :		0.0 1	0.6
25000-26000	- •	115.00	117,50	119.60		1 -20.0		-13.96	-11.98	-10.00			0.0	
26000-27000 27000-28000		111.00 107.70	113.60	118.60	118.30	: -17.9	e -13.96	-12.03 -12.03	-11.98 -10.00	-10.00 -10.00	1 1	0.0 :	0.0	0.0 :
28000-28000 28000-30000		104.10 100.70	108.80	107.40 103.80	108.28	1 -10.0		-11.95 -11.95	-10.00 -10.00	-10.00 -10.00	11		0.0	
30000-31000		97.50		100.00		: -14.0		-10.00	-10.00 -10.00	-7.97 -7.97	: :		0.0	0.0
\$1000-\$2000 \$2000-\$3000	88.20	94.10	99.80 92.40	97.30 94.00		1 -13.9	-12.03	-10.00	-10.00	-7.97 -7.97	11	0.0:	0.0	0.0
35000-34000 34000-35000		87.70 85.80	88.00 88.50	●0.40 ●7.40	\$1.10 \$8.08	: -10.0 : -16.0			-7.97	-7.97	i i		0.0	

1200Z FIGURE B-11-2-C B-179

GRANTLEY ADAMS

WET-DRY TRANSITION

THICKNESS STATISTICS

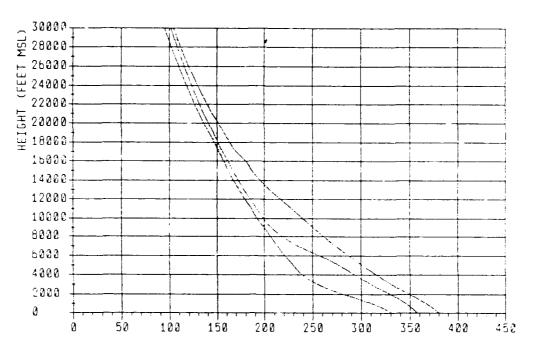
BASE		566 180 FE	S RCENTIL	E S		SAL.	RS ERCENTI	_E ≑		NOAM THE F	AL ERCENTI	LES.		SUB THE PE	FCENTI.	LES
FT MSL	%= 4 C	10%	502	90%	1,540	1.0%	50%	90%	%FR0	1.0%	5∪%	90%	%FRU	1 19%	2	G . 7
5FC -500	*.6	40	240	256	22.8	45	240	240 .	98.5	1617	4598	54119	24.6	141	240	330
5 00-1000	2	794	794	394	٠.4	1376	:378	1376	. 5	96	4429	34286	U. 4	¥8	197	689
1000-1500	а	295	443	492	1.9	98	197	1280	1 - 7	195	10 5 8	14089	O. 4	98	197	295
1500-2000	2.:	1.08	394	669	5.5	98	492	98 4	1.7	98	24c1	11516	9.2	4€	146	197
またのりとは着かり	4.6	178	443	689	d. 4	98	492	974	5.7	၁၉	2658	7598 .	0.6	197	197	30.
2500-2000	₹.1	146	394	591	9.7	98	394	964	11.4	344	2.64	6594	0.6	48	· 5 -	591
2000~2500	3.4	98	246	719	7.8	96	246	689	9.3	⊋ g	1778	5590 .	5.8	197	591	1575
3500-4000	7.e	96	92	522	5. ~	98	295	800	10.5	99	□84	2973	5.1	96	295	954
4000~45mi	4.	98	295	492	5. '	78	794	728 .	9.3	98	778	5905	8.4	197	591	1043
4500-5000	٥.7	; 97	295	492 .	11.9	99	197	709	15.6	98	1476	14502	7.3	98	194	1045
5000-6000	14.6	98	295	491	21.5	98	295	689	28.7	98	1673	29857	11.7	.97	294	1181
6 (1)00 = 7(10)0	14.4	98	295	571	19.5	ခရ	197	591	29.2	98	2264	28675	10.0	98	492	1219
7000- 8 000	13.1	197	295	541	18.5	98	295	50;	24.6	96	1476	27819	11.0	98	497	1181
8000-9000	11.2	98	295	794	10.5	98	197	492 :	26.7	98	3839	26904 .	10.8	98	394	1181
AUDIO-1 Origin	• - 7	유럽	:97	.94	9.6	96	197	394	17.1	96	7841	25821	8.1	98	492	:053
10000-11000	6.7	98	197	294	7.3	96	197	394	16.2	 98	8760	24925	5.4	99	591	1181
11000-12000	2.1	78	246	184	5.2	78	197	394	8.1	98	23163	24049	4.6	98	492	935
12000-13000	7.1	96	. : 97	295	5.	98	197	394	8.1	98	3658	22799	3.5	98	295	110E
13000-14000	1.9	98	197	295	2.9	96	197	325	4.8	98	11713	21913	1.7	197	541	986
14900 - 15000	1.14.6	96	197	197	1.3	48	148	295	3.5	99	20014	20879 .	2.7	98	794	984
15000-16000	1.6	98	98	: 97	1.5	98	96	197	3.1	512	19029	19659	1.3	98	689	1181
16000-17000	9.4	164	197	270	1.0	171	104	728	2.7	295	1558	18619	1.9	164	728	1148
17000~18000		1-4	104	164	5.0	•			1.5	1640	6297	17389	2.7	230	636	919
18000-19000		164	104	164	1.0	164	154	164 .	5.2	935	15912	16782	2.1	164	164	6 4
19000-20000				-				~ .	1.1	5249	15256	15748	ο. Θ	164	328	656

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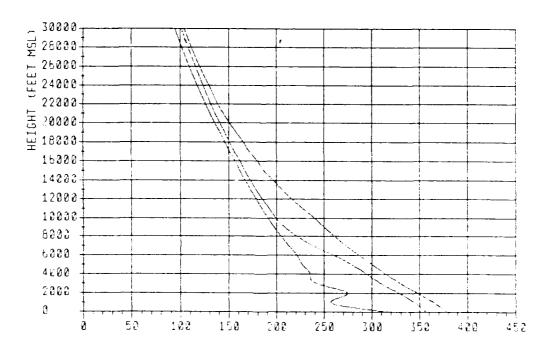
BASE		DUC T	'S ERCENTIL	***		SALA THE PE	S PCENTI			NORM				SUB		
F' MSL	%F#0	10%	50%	Q.,,,	VERG	195	50%	967	KERO	THI P	ERCENT)	90%	WERD	10%	RCENTI) 50%	901
	•			-								- -•	·			
SFC-500	13.5	141	240	290	22.0	96	240	33 8 .	98.6	1673	4626	34776	27.0	141	240	376
5 00-1000	. 4	295	394	492	O-6	98	591	12 6 0 ;	1.2	78	3593	9842	0.2	394	594	194
1000 1500	17.4	295	447	50;	1.4	98	591	1575	4	1378	4134	7799:	0.0			
1500-2000	i . e	197	295	591	5.8	98	394	784 .	1.2	1870	3347	22499	0.2	787	787	787 .
2000-2500	4.6	99	295	512	10.7	⇔8	394	866	٥.5	246	2654	29.5	0.2	984	984	964
2500-5500	E. 4	98	-94	بينه	10.5	78	394	886	12.5	294	2362	7086	2.2	128	492	1151
3600-3500	2.6	96	197	689	6.	98	197	886 .	10.5	886	2412	7529	2.4	226	443	: 545
3500-4000		98	295	492	4	⇒e	394	945	5.8	295	1378	5740 -	2.2	167	794	1014
4 000- 45 00	1.2	98	- 44	59:	4.9	98	394	64 i	7.1	98	984	6 082 .	2.6	98	492	1329
4500-5000	7,9	98	295	492	9. 7	98	197	689	11.1	98	1000	4429	7.3	98	295	827
\$000- 6 000	14.5	99	295	492	21.8	98	295	689	26.7	96	2165	29758	12.9	98	394	1299
6000-7 000	17.7	107	고유병	5.:2	18.0	98	295	59)	27.1	177	2854	28675	7.1	98	492	17.9
7000-8000	12.1	197	295	492	17.7	98	197	591	21.0	98	2756	27888	8.3	96	394	1122
8 000- 9 000	9.7	96	19 5	492	14.9	98	197	497	21.0	98	26116	27002 .	8.7	98	497	1278
9000-10000	7.7	98	295	492	9.7	98	197	463	15.5	98	2954	25919	6.1	98	394	965
10000-11000	6. 7	78	197	194	8.7	78	197	394	16.8		14148	24935	4.6	98	295	1.67
11000-12306	4.	98	167	295	6.7	98	197	395	9.2	98	23065	24(49	4.4	96	591	1.083
12000-15000	1.6	98	197	394	3	98	98	715	7.0	98	6513	22868	5.4	98	394	965
170mm-140mm		28	157	* C 4	1.1	98	197	472	5.4	98	14696	21961	i . 6	96	197	776
14000-15000	1.0		•		1.2	78	197	794	1.8	98	1280	20009	1.4	98	291	1575
15000-16000	1.2	78	148	197	1.7	38	98	197	2.6		19178	19856	1.4	99	295	1712
16000-17000	5.5			- 1		164	164	ile	2.4	538	10045	18879	2.5	112	425	1148
17000-18000	. 5	164	164	: 64	. 4	164	164	104	2.6	164	17061	17681	2.2	197	456	1115
1000-1900-	ارس بایار		.04		. e	104	164	164	3.4	755	16076	10777	£: £	164	118	820
19000-20000	6.0				0.0			.04	1.2	9514	15092	15748	1.0	164	492	8.
										7514	137742	12/48		184	44~	

1200Z

FIGURE B-11-2-D B-180



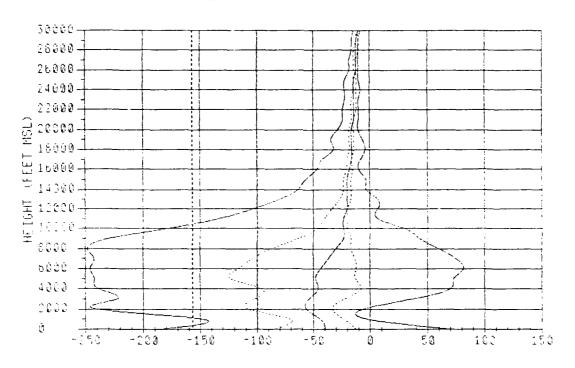
N (N-Units) 0000Z



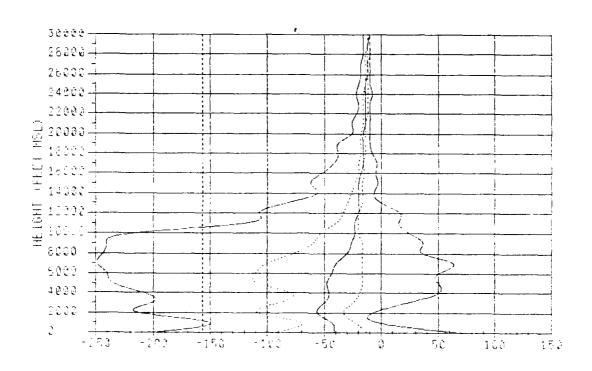
N (N-Units) 1200Z FIGURE B-11-3-A

B-181

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-11-3-B B-182

GRAN	TLEY A	ADAM:	S								0	DRY S	EASO	N
- NGT PT NSL	1 1%	N PERC	ENTILES KØC	96 X	991	1 1%	DMD 18%	H PERCEN	TILES 90x	992	11		T OCCURS	
SPC-500	1336.61	350. 25	363, 25	373.06	385. 87	1-245.19	-133, 33	-43, 27	27. 66	129.56	11	11.9	21.8	27.7
500-1000	1326. 28	343. 00	256. 06	369. 69	366. 23	1-114. 58	-62.50	-29.58	-20.63	2. 98	1.1	0. 4		
1000-1500	1313.46	237. 06	358, 25	362, 25		1 - 113. 31	-62, 50	- 39, 56	-22. 91	0.81	1 1	0.5	1.9	1.4
1500-2000	1301.10	330. 89	344. 38	354. 74		i - 150. 😘	-77. 86	-43, 75	- 2 5. 🗪	-6. 25	1.4	2. 5		
2000 - 2500	1288.71	322.69	336.38	346.00		-229.16		-94. 16	-29.16	-6. 25	11	8.3	12.6	
2500-3000	1272.88	309. 56	325. 56	235. 88		1 - 243. 75 1 - 243. 75		-56. 22	-33. 33 -27. 68	10.42 18.75	1 1	11.0 7.1	29.6 15.8	2. 8 4. 9
3000 - 3500 3500 - 4000	251.32	297.58 287.69	314.75 305.25	325.77 318.00		1-254.16		-56.25 -58.66	-16.66	52.89	11	6.3	12.4	9.3
4000-4500	243. 25	277.51	296. 56	310.56		-268.69		-47. 91	-12.50	58. 33	- 11	7. 6	13.4	
4500-5000	237. 96	263. 69	289. 06	393.50		- 327. 06		-47.91	-10.42	81. 98	- i i	15. 6	18.8	
5000-6000	1228.30	244. 70	274.75	292. 56	301.00	1-327.86	-131.25	-45. 83	-13. 28	70.83	1.1	24. 6	28.1	15. 2
5000-7000	1220.60	226. 10	253. 00	277. 56	286. 38	1-340.63	-112.56	-40.10	-18.42	98.74	1.3	19.6		
7800-8000	1213.16	216.40	234. 48	264. 36		1-336.61	-98, 47	- 33. 33	-10, 42	73. 36	1.1	16. 2		
8000 - 7000	1265. 56	207.80	219. 🗪	256. 48		1 - 243. 36	-70, 05	-26.69	-13. 28	63. 28	1 1	12. 3		12.7
7000-1000	1198.60	200. 36	207, 30	237.40	248. 80	1 - 200, 00	-63. 28	-23. 44	-13.41	46. 61	1.7	6. 5	9.7	8. 3
10000-1100	1161.75	193.40	190.00	223. 10	238 78	-176.69	-30.00	-23.30	-16.66	41.66	11	5. 9	8.1	19.3
11006-1200		186. 48	191,00	209.14		i -123. 30	-43.36	-23. 30	-16.66	23. 30	1.1	2. 8	5.9	6. 6
12000-13000		180, 10	183.96	198.99		1-106.64	- 33. 33	-20.03	-16.66	16. 66	1.1	2. 1	4. 0	5. 0
13000-14000	1172.04	173.60	177.50	188.64	295. 88	1 -93.36	-29. 95	-20.05	-16.66	18. 42	1.1	2. 3	3.0	4. 0
14000-15000	1166.09	167.80	171.10	160.40	196.05	1 -76.69	-25.69	-19.92	-16. 66	20. 95	1.1	1.5	2.1	
						•							•	•
15000-16000		162. 40	165. 40	172. 90		-63.28	-23.44	-16. 66	-16.66	3. 39	1.1	0. 8		
16000-17000		157. 00	168, 28 154, 56	156.20		-53.31	-22.03 -20.00	-17, 96 -16, 81	-15. 94 -15. 94	2. 93 -1. 95	; 1	9.3 9.4		
17950-18660		151. 98 146. 38	149. 28	134. 90		-43. 98	- 28. 88	-16.01	-13.98	0.00	11	0.4	1.0	
19000-20000		141.50	143.80	147.78	155.97		-18.84	-16.01	-13.98	-5. 94	11	0. 0	8.4	
20000-21000	1135. 20	136. 99	139. 10	142. 29	149. 20	-37.96	-17. 96	-13.94	-13. 98	-8. 05	1.1	4 . 0	i 8.0	
21000-22000		132. 5 0	174. 60	137. 20		-26.01	-16.01	-13.98	-13. 98	-7. 97	1.1	8. 8	0.1	8.5
22000 - 23000		128. 26	138. 36	132. 80		-23.98	-16.01	-13.96	-12.03	-6. 82	1 1	0.0	0.0	
23000-24000		122. 50	127.80	128. 20		-22.03	-16.01	-13.90	-11.95	-7.97	1.1	●. @	. 0.0	
24000-25000	1115. 90	119.40	121, 40	123.68	127.40	1 -25.94	-14.06	-13.94	-11.95	-6. 02	11	0.0	0.0	9. 8
25000 - 26000	1112.17	115.50	117.50	119.50	122.40	-20.13	-14.96	-12.03	-11.95	-10.00	11	0. 0	0.0	
26000-27000		111.86	113.60	115.60		-18.84	-13.98	-12.03	-11.95	-8. 95	11	8.0		
27000-28000		107.60	199.60	111.60		-17.96	-13.98	-12.03	-10.00	-7.97	- 11	0.0		
28800-29000	1100.37	104.10	105.86	107.50	109.50	1 -16.01	-12. 93	-11.95	-10.00	-10.00	1.1	0.0	. 0.0	9.1
29000-3000	96.90	100.75	102.40	184. 88	105. 60	1 -16.01	-12. 93	-11.95	-10.00	-8.65	1.1	8. 8	1 3.0	0.0
		• • • • • • • • • • • • • • • • • • • •				*					- • •		• <u>-</u>	•
30000-31000		97.56	99. 10	100.60	181.90		-12.03	-10.00	-10.00	-7.97	1.1	9. 6		
31999-32990 32999-33990		94. 30	95. 96 92. 48	97. 49 94. 98		-14.06	-12.03	-10.00	-10.00	-7. 9 7	1.1		. 0.8	
32000-3300		90. 88 87. 78	92. 48 89. 18	96.41		1 -13.94	-12.03 -11.95	-10.00 -10.00	-10.30 -8.05	-7. 9 7 -7. 9 7	11	0. 0 0. 0	1 0.0	0.0 0.0
34000-3500		85. 60	86. 38	87. 50		-29.90	-19. 98	-10.00	-9. 93 -7. 97	-7.97		8.0	9.0	
				- · · · · ·				40.00	-,.9/	-/. #/				

						0000	Z							
HGT FT MEL	1 1%	N PERC	ENTILES FOR	90%	99X	1%	DND 10%	H PERCEN	TILES 90%	99X	::	PERCENT DUCT :	OCCURP SRLR :	SUB :
SFC-500	332.80	340.87	362.25	374.86		1-280.48		-48.83	23.03	108.28	::	13.3	24.9	25.0
900-1000 1000-1800	1256.90	342.50 338.88	355.38 349.89	368.50 361.00		1-100.00	-82.50 -84.58	-37.50 -39.58	-18.75 -20.83	8.25 2.08	11	0.5 :	1.1:	
1500-2000	:254.00	329.51	343.88	353.67		:-183.33	-79.16	-43.75	-22.91	-10.42	::	4.2	7.8	0.9
2000-2500	290.06	320.69	330.38	345.19		1-247.29	-108.33	-86.25	-31,25	-16.66	; ;	8.6	15.2	0.8
2500-3000	1255.78	108.00	324.25	335.06		1-208.33	-112.50	-96.25	-33.33	-2.00	1 1	6.9 :	19.7 :	1.9 :
3000-3800	1242.85	297.69	313.30	325.19		1-204.18	-95.83	-82.08	-27.08	16.39	::	3.8 :	12.6	
3500-4000	1241.03	289.01	305.19	317.16		1-222.91	-83.33	-47.91	-20.83	31.28	: :	4.6	7.4	9.7 1
4000-4500 4500-5000	232.11	278.86	298.00	310.04 303.25		1-220.54	-83.33 -83.58	-48.83 -48.83	-18.75 -16.66	45.54 56.25	11	5.7 : 8.6 :	9.3 :	7.7 ; 9.1 ;
	*					+								;
5000-6000	1227.17	249.90	277.50	292.69		:-293.49	-109.89	-46.61	-10.66	54.16	::	17.1:	25.7 :	10.8
0000-7000	:221.14	231.40	257.75	277.19		:-310.65	-106.77	-43.75	-16.66	56.84	::	16.9 :	21.6 :	11.8 :
7000-8000	1213.30	218.00	238.00	263.25		1-343.31	-96.61	-39.58	-13.41	60.02	: 1	10.5	18.8	10.5
#000-9000 9000-10000	: 205.23	208.40	222.00	248.80 235.80		1-282.27	-70.05 -59.69	-30.07 -26.56	-13.41 -13.41	39.97 39.97	1:	11.5 : 8.4 :	14.0 :	9.8 :
	*					+		-20.00	-13.41					
10000-11000		193.40	198.20	222.40	237.38	:-192.81	-53.38	-23.30	-16.66	29.95	: :	7.9 :	9.7	9.1
11000-12000		186.40	191.00	210.00		1-139.55	-39.97	-20.05	-16.66	26.56	1:	4.2 (4.8 (
12000-13000		180.20	184.00	198.90		-103.25	-33.33	-20.05	-10.66	20.05	: 1	2.4	3.3 :	
13000-14000		173.70 187.90	177.50	189.50		1 -86.59	-29.98 -20.69	~20.05 -19.92	-16.66 -16.66	13.28	11	1.5 :	3.0 1 1.3 :	2.9 :
											• • •			
14000-16000		162.40	165.50	173.80		1 -83.28	-23.44	-19.92	-13.66	10.03	::	0.9 :	1.8 :	3.0 :
16000-17000		187.10	100.30	187.00		1 -88.01	-22.03	-17.96	-18.94	0.00	1 1	0.9 :	1.0	
17000-18000		151.90 146.30	194.50	180.30		-40.00	-20.00	-16.01	-15.94	-2.03	: :	0.0	0.5	
19000-20000		141.40	143.80	148.10		1 -52.03	-20.00 -18.04	-16.01 -18.01	-13.98 -13.99	1.95	11	0.6 1	0.9	2.8 :
	•					+					• • •			
30000-31000		130.00	139.10	142.70		1 -27.86	-17.98	-15.94	-13.98	-7.97	1:	0.0 ;	0.1 :	1.0 :
1000-22000		132.40	134.60	137.70		1 -28.47	-18.01	-13.98	-13.98	-10.00	: 1	0.0 :	0.1 :	
22000-23000		128.10	130.30	133.10		-24.00	-16.01	-13.98	-12.03	-10.00	1 1	0.0:	0.1	
24000-25000		118.30	121.40	123.70		-23.98	-18.01 -18.01	-13.98 -13.98	-11.95 -11.95	-8.05 -7.97	1:	0.0 :	0.0 :	
	•										• • •			
25007-26000		115.40	117.40	119,60		: -20.00	-14.08	-13.98	-11.95	-10.00	11	0.0	0.0 :	0.4 1
28000-27000		111.60	113.50	118.80		1 -20.00	-14.00	-12.03	-11.95	-10.00	::	0.0 :	0.0 :	
27000-28000		107.50 103.90	109.50	111.50		-16.04	-13.99	-12.03	-10.00	-10.00	1 :	0.0 1	0.0:	
29000-30000		100.60	102.20	103.90		-16.01	-12.03 -12.03	-11.95 -11.95	-10.00 -10.00	-8.05 -8.05	1:	0.C:	0.0:	0.1 :
	•													
30000-31000		97.30	99.00	100.50		1 -14.06	-12.03	-10.00	-10.00	-7.97	: :	0.0 :	0.0 :	
	1 09.30	94.20	98.70	97.30		-15.99	-12.03	-10.00	-10.00	-7.97	::	0.0 :	0.0 :	0.0 '
	. 65.86	90.60	92.30	93.90		-13.96	-12.03	-10.00	-10.00	-7.97	11	0.0	0.0	0.0
33000-34000 34000-35000	: 82.50 : 80.15	87.80 85.50	89.90	90.30 87.40		-20.00	-11.95 -10.00	-10.00	-8.05 -7.97	-7.97 -7.97	1:	0.0 :	0.0:	0.0 :
						10.04			-,,	-,,,,,				0.0 :

1200Z FIGURE B-11-3-C B-183

DRY SEASON

THICKNESS STATISTICS

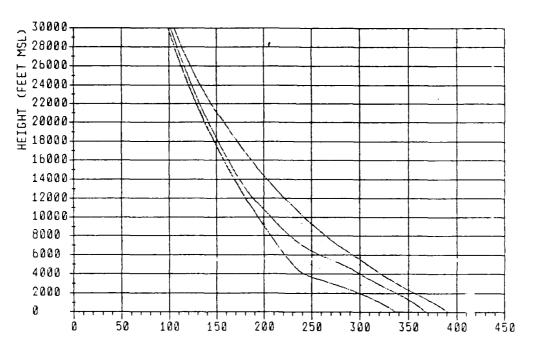
BASE		DUCT	S RCENTIL	ES		SALA SA 4HT	S RCENTIL	ES .		NORM THE F	AL ERCENT :	 €5	SUB THE PERCENTILES				
FT MSL	%FRQ	10%	50%	90%	%FRO	19%	50%	90%	FRO	10%	50%	90%	%FRQ	10%	50%	90%	
SFC-500	11.9	141	240	240	21.0	43	240	238	98.6	1617	2881	18734	27.7	141	240	240	
500~1000	٥.1	197	197	197	0.6	197	984	.476	:.6	98	5708	29522	0.8	96	197	1181	
1000-1500	0.5	98	246	492	0.8	98	78 <i>7</i>	1280	1.4	98	1673	30165	. ⊙.4	98	591	591	
1500-2000	2.1	98	コヤニ	610	4,9	98	492	974	2.5	325	2854	30936	ψ. 4	98	591	591	
2000~2500	7.2	197	295	591	9.2	98	295	486 :	6.1	98	2264	6830	1.0	98	394	886	
2500~3000	7.2	96	295	591	14.4	98	394	886	15.1	492	2165	4419	2.0	98	591	915	
こううりゃ 3500	4.4	98	295	591	7.1	98	295	994 :	12.0	98	1476	4469	3.5	98	374	984	
3 5 00-4006	5.9	98	295	591	7.4	48	295	767	9.6	98	1280	54:3	5.8	98	591	1191	
4000~4500 :	4.9	197	394	689	9.8	98	295	679 :	11.5	98	886	6889	5.5	197	59:	728	
4500~5000	12.2	98	394	591	14.7	98	295	489	19.8	99	1870	30250	6.5	98	295	886	
5000~6000	17.6	98	294	591	21,3	98	295	489	32.7	98	2654	29758	11.8	98	492	1087	
6 000~7000	15.3	98	29%	492	(8.i	98	197	591	25.6	98	2953	28774	9.7	197	492	1260	
7000~ B 000	11.9	: 97	292	492	10.6	96	197	5 91	26.4	98	3700	27800 .	8.5	98	394	1289	
8 000~ 9 000	10.2	96	292	294	10.	98	197	492	20.6	98	5512	27002	8.5	98	443	1083	
9 000~10000	4.9	98	292	492	8.7	96	197	294	13.6	177	17979	25919	4.5	96	689	1191	
10000~11000	5.2	98	.97	354	7.2	98	96	294	13.5	197	61-2	24935	7.0	98		1102	
11000~12000	2.6	28	197	394	4.8	99	197	295	9.2	98	23560	27951	. 5.1	78	492	1083	
12000~13000	1.9	95	153	295	3.é	98	: 97	295	6.5	96	7677	2277	5.0	<i>,</i> €	≘ ?:	1161	
1.5000~1.4000	2.1	48	197	295	I.⊖	⊽ 6	98	295	5.0	: 48	21096	21687	2.3	⊋⊖ಶ	730	1004	
_4000-1500c	1.0	96	197	393	1.0	98	96	197	4.4	492	20063	20763	7.3	256	591	984	
15000-16000	U. 6	96	96	295	1.3	46	197	197	4.2	348	7:49	19876	1.1	96	705	978	
16000-17000	5. T	98	131	164	1.0	98	164	: 54	2.5	589	18045	16701	1.9	154	540	1512	
17000-18000	0.4	164	: 54	176		tie	726	426	:.5	623	17025	17660	Ų. Ÿ	164	328	2242	
18000-19600	9.3	154	164	164	1.0	164	104	164	5.0	574	15912	16755	2.0	164	228	853	
19000-2000	11.				4	164	164	104	1.4	خوم	1542	12748	0.9	164	656	820	

0000Z

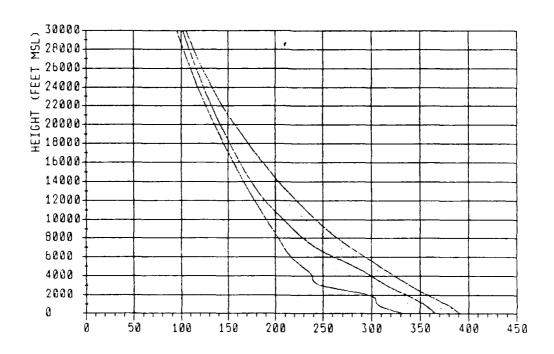
BASE :		ಗಾಟ್ರಿಕ್	S SCENTIL	ES	SALAS THE PERCENTILES					NORM THE P	AL ERCENTI	LES :	SUB THE PERCENTILES :				
FT MSL	%FRC	16%	50%	90%	%FRC	10%	56%	ም ፅ% .	%FRO	10%	5.7	90%	%FHQ	1.0%	50%	90%	
SFC-500	:3.3	120		228	14.9	98	240	228	99.0	1476	4171	34778	12.0	141	240	328	
5 00-1-€6	3. 3	98	140	197	44 ـ ز	98	197	386	1.9	98	2067	34680	9.6	98	244	787	
1000-150	1.0	98	-44	689	2.7	98	492	984	. 5	99	: 376	24070		197	295	787	
1500~2000	2.7	98	205	569	5.7	98	492	896	3.6	98	3248	7401 :	0.5	98	148	197	
2000-2500	6.5	96	295	491	11.1	98	492	886	7.4	276	2854	556:		.95	295	:280	
2500-1000	ن.4	98	295	492	11.9	98	492	886	13.4	177	2756	6122	1.7	98	443	1.004	
5000-2500	2.6	1.∵6	344	689	5.0	68	295	787	5	427	1969	492:	2.3	96	49=	1.63	
T500~4000	2.9	197	295	748	4.5	98	97	689	a. 0	98	1981	5492	4.0	138	492	1142	
4600-4500	4.2	ì 76	:9a	650	۵.0	98	205	787	á. o	98	2165	30 e	4. :	98	492	686	
4500-5000	6.2	98	295	591	9.7	98	295	719	12.6	98	2165	20250	5. 3	99	195	1142	
5000-6000	14.0	78	<u> </u>	591	20.6	98	246	289	26.2	98	3445	29758	9. 7	96	492	984	
6 000-7000	:3.5	96	295	40.	:8.	9⊕	255	591	24.8	98	445	Za774 .	6.1	98	794	1000	
? いうり~ 8 りしり	::.5	48	295	497	15.9	99	197	492	23.7	174	10755	27986	6.9	⊋ 8	241	1152	
8 000- 9 000	Ģ.4	98	262	421 .	11.5	96	15-	492	:9.1	96	0544	207 4	6.9	96	591	1427	
9 000-10000	6.5	98	295	394	10.1	98	197	194	15.4	98	25172	.5919	5.4	98	492	915	
10000-11900	6.7	98	197	794	8.7	98	76	294	17.1	197	24447	14975	5.2	98	;94	1280	
11000-12000	5.4	٧ė	197	195	4.7	98	: + *	794	7.6	ے ب	13091	21.754	4.5	48	491	110	
12000-1500b.	2.3	99	177	295	2.7	78	197	274	6.5	98	2092	22868	2.1	98	591	1555	
13000-14000	4	98	197	295	2.5	96	۾ پ ڇ	295	5.4	98	2.996	21605 .	1.5	98	689	1132	
14000-15000	1.0	98	197	295	1.0	78	148	295	2.5	187	13751	20879	1.5	98	492	1142	
15000-16000	. 6	38	38	197		78	78	295	5.2	78	19079	19718	2.0	98	594	984	
1600m-170m	. 	∌ €	121	164	4.40	121	164	316	1.5	866	19527	8911	1.6	19.	6	1:06	
17000-18000	0.0				0.4	164	228	128 .	I.4	328	17275	17981	7.9	154	492	984	
18000-19000	20.6	164	154	164	0.9	154	164	328	5.7	755	15911	670	1.5	164	328	767	
19000-23000					0.4	164	164	128	1.2	15092	15584	15748	6.1	228	128	128	

1200Z

FIGURE B-11-3-D B-184



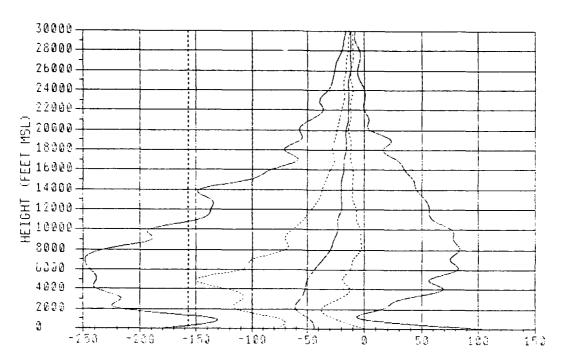
N (N-Units) 0000Z



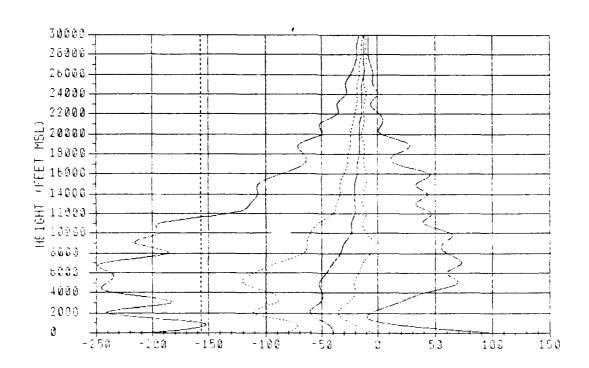
N (N-Units) 1200Z

FIGURE B-11-4-A B-185

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-11-4-B B-186

GRANTLEY ADAMS

DRY-WET TRANSITION

FT MEL	18	F PERCE	WTILES SOR	90%	99%	1%	DND 10%	B PERCEN	TILES SOR	86%	:: PERCENT	OCCURRENCE SRLR : SVB	:
8FC-800 500-1000 1000-1000 1800-2000 2000-2800 2800-3000 5000-4000 4000-4800	1384.21 1328.04 1301.26 1315.06 1308.42 1278.05 1241.34 1238.04	308.69 302.67 340.06 334.68 320.70 308.06 297.19 287.19	370.75 370.00 363.06 385.69 346.80 335.25 324.86 316.19 306.00	386.75 381.75 372.75 374.19 304.50 344.37 334.19 326.37 318.56	389.87 379.41 370.52 380.41 350.37 340.41 332.10	1-221.54 1-208.96 1-200.62 1-288.53	-72.81 -72.81 -83.33 -102.08 -110.41 -97.91 -93.78 -116.66	-33.38 -50.00 -50.00 -55.21 -60.41 -60.41 -56.25 -54.16 -52.06	80.41 -22.91 -27.08 -33.33 -41.68 -39.08 -27.08 -20.63 -16.66	141,88 10.42 6.20 -16.70 -9.08 4.17 31.67 27.08	1: 6.3: 1: 0.4: 1: 0.4: 1: 2.7: 1: 6.5: 1: 6.5: 1: 4.9: 1: 4.9: 1: 4.9:	3.1 : 2. 7.8 : 0. 11.8 : 0. 18.1 : 2. 12.8 : 8. 10.8 : 8.	1 : 5 : 5 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6
4800-8000 8000-8000 8000-7000 7000-8000 8000-10000		272.56 249.30 252.50 219.70 211.10 202.60	282.08 288.80 241.80 228.90 218.10	311.80 300.38 203.38 208.08 253.30 240.00	307.88 292.00 278.00 284.78 262,43	!-214.29 !-208.84 !-170.08	-143.75 -100.00 -83.33 -86.66 -63.41	-52.08 -84.16 -45.63 -36.71 -30.07 -28.68	-16.66 -20.63 -16.66 -13.28 -6.64 0.00	63,09 61,13 63,62 83,33 69,96	:: 17.8 ; :: 28.7 ; :: 13.6 ; :: 7.4 ; :: 5.4 ;	11.5 : 14.	: :
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1188.83 1178.40 1172.80 1187.20	198.30 188.00 181.31 174.80 168.60	210.10 200.90 192.10 163.30 174.70	230.31 220.10 211.10 202.60 194.40	230.47 220.20 210.38 201.28	1-177.61 1-160.02 1-148.61 1-143.36 1-136.72	-83.28 -83.38 -46.81 -43.23 -40.10	-23.30 -23.30 -20.06 -20.08 -20.08	-1.26 -1.19 -2.26 -6.64 -10.03	76.69 50.00 46.61 66.96 50.00	:	9.8 : 21. 11.3 : 10. 0.1 : 15. 7.7 : 18. 7.9 : 12.	1 1
18000-17000 17000-18000 18000-18000 18000-20000	1158.40 1151.30 1145.60 1140.60	187.90 182.80 148.90 142.00	162.10 186.50 181.10 148.40	178.20 171.00 183.80 187.10	168.70 177.80 170.02	-92.60 : -79.38 : -71.97 : -60.00	-30.00 -30.00 -27.96 -26.01	-17.96 -17.96 -18.01 -18.01	-8.05 -8.05 -8.05 -11.95	46.21 32.00 27.88 12.03	2.5 : 1.3 : : 0.4 : : 0.4 : : 0.0 :	3.2 1 13.4 1.1 : 12. 1.8 : 13. 0.9 : 6.	0 I
21000-22000 22000-23000 23000-24000 24000-28000	1181.80 1127.80 1122.80 1118.80	133.00 128.70 124.00 120.00	136.10 131.60 127.10 122.70	144.85 138.96 133.00 127.70	149.40 143.30 137.30	1 -47.96 1 -46.01 1 -33.86 1 -36.01	-22.03 -20.00 -20.00 -20.00	-14.08 -13.98 -13.98 -13.98	-11.95 -11.95 -10.00 -10.00	12.03 3.96 3.96 3.96	0.0 : 1: 0.0 : 1: 0.0 :	0.8 : 5. 0.8 : 6. 0.4 : 5. 0.0 : 5.	9 : 5 : 6 : 1 :
28000-27000 27000-28000 28000-28000 28000-30000	1107.10 1103.80 1100.30	112.30 108.10 104.60 101.30	114.70 110.80 108.80 103.10	118.30 113.80 109.20 108.30	120.80 116.10 111.00 106.90	1 -30.00 : -22.03 ! -20.00 : -17.98	-18.01 -16.01 -13.98 -13.98	-12.03 -12.03 -12.03 -11.95	-10.00 -10.00 -10.00 -10.00	-2.03 -8.02 -8.36 -7.17	11 0.0 1 11 0.0 1 11 0.0 1	0.0 : 1.0 0.0 : 0.0 0.0 : 0.0	5 : 9 : 7 ! 9 :
31000-32000 32000-33000 33000-34000 34000-36000	1 80.48	94.90 91.30 68.20 66.00	88.50 92.90 89.80 88.90	98.20 94.60 90.90 87.80	98.70 91.80	-23.86 -15.85 -27.06 -26.01	-12.03 -12.03 -12.03 -10.00	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -7.97	-7.87 -7.87 -7.87 -7.87	11 0.0 1 11 0.0 1 11 0.0 1	0.0 : 0.0	4 !

0000Z

egt Yt mel	1 1%	N PERC	ENTILES SOL	90%	99X	;)%	10% DMD	e Percen Box	TILES SON	99X	11	PERCENT DUCT !	OCCURR SRLR :		:
SFC-600	1348.82	362.75	374.78	386.00	393.66	1-284.94	-139.42	-38.58	43.27	160.93	::	14.0 1	20.0	38.4	:
800-1000	1265.97	166.06	366.00	380.26		:-136.46	-70.83	-45.83	-20.63	12.50	1.1	0.7 :	2.2		
1000-1800	1263.28	348.69	361.50	372.06		1-123.84	-72.91	-47.91	-22.91	10.42	: 1	0.8	4.0 1		
1800-2000	1303.42	341.28	354.19	363.56		1-170.83	-89.58	-54.18	-31.26	1.12	1 1	4.7	9.0		
2000-2800	1283.84	330.50	344.88	384.28		1-218.60	-108.28	-80.41	-39.88	-7.31	1.1	8.6	14.4		
2800-8000	1256.75	317.74	333.86	344.01		1-191.79	-98.83	-58.33	-30,56	2.08	: :	6.3	11.8		
3000-3800	1257.16	106.48	323.78	334.00		1-152.04	-83.33	-84.10	-31.28	28.00	1:	2.8	8.2		
1900-4000	1258.40	297.69	318.80	326.19		1-176.06	-77.08	-50.00 -50.00	-27.08 -22.91	40.68 30.23	: :	3.5 :	7.1:	6.0	
4000-4900	233.88	200.37	307.28	310.06		1-241.66	-89.58	-80.00	-20.63	43.78	11	12.0	17.8		
4800-8000	1229.69	277.06	299.38	311.10		1-316.62	-120.65		-20.03		-++				ï
5000-6000	1223.50	263.60	262.86	300.38		1-330.11	-133.33	-64.16	-20.83	83.33	1.1	24.3	28.4		
0000-7000	1218.72	234.90	200.56	285.28		1-237.03	-07.91	-46.61	-18.60	90.02	11	11.5	20.0		
7000-8000	1208.70	221.40	244.10	200.00		1-202.38	-79.95 -88.66	-39.97 -33.33	-13.41 -8.77	56.84 83.28	11	8.3 : 7.0 :	12.4	13.3	
8000-9000	1201.78	211.80	231.60	253.96		1-179.95	-60.02	-29.95	-6.64	36.64	: :	B.9 :	6.1		
9000-10000	1185.16	202.90	220.40	241.10	201.24	1/ 9.3 0		-29.90			- • •				
10000-11000	1100.71	188.40	211.50	230.30	240.70	1-178.08	-63.20	-26.56	-6.77	83.28	: 1	7.0 :	11.3	17.6	t
11000-12000	:181.91	168.10	200.80	219.84	230.10	:-148.72	-03.20	-23.30	-8.77	56.64	: 1	5.8 :	7.2 :	13.1	:
12000-13000	1176.10	181.40	191.90	210.41	220.70	1-126.61	-46.61	-23.30	-0.64	50.00	::	2.9 1	8.5	15.4	ı
13000-14000	1170.20	174.80	163.40	202.10	211.09	1-119.92	-46.61	-20.05	-10.03	46.73	11	3.6 :	6.6	14.1	
14000-15000	1104.80	108.00	175.40	183.90	201.50	1-126.60	-30.07	-20.05	-9.90	48.37	11	3.8 :	4.8	12.6	:
18000-18000	1169.30	163.20	168.60	165.70	193.20	-05.36	-36.59	-19.92	-10.03	39.97	11	1.3 :	3.8	10.3	i
10000-17000	1184.00	187.80	182.30	170.20	185.50	: -88.11	-38.93	-18.04	-10.00	30.00	1:	0.7 1	3.1	11.4	t
17000-18000	:148.73	182.80	158.40	170.30	177.10	1 -70.00	-28.04	-17.86	-10.00	24.03	1:	0.2 :	1.4		
18000-18000	1143.60	146.00	161.10	183.26	169.53	1 -66.48	-27.98	-16.01	-10.00	26.01	1.1	0.5	1.4		
18000-20000	1180.07	142.00	145.80	186.20	162.00	-87.00	-26.01	-16.01	-11.05	15.85	-11	0.0 :	0.2	6.0	:
20000-21000	1134.10	137.50	140.70	150.10	188.00	-83.90	-23.00	-16.01	-11.95	11.97	11	0.2 :	0.7	8.0	i
21000-22000	1129.67	133.10	136.20	144.10	140.60	1 -47.90	-22.03	-15.94	~11.95	7.97	1:	0.0 :	0.8	4.6	:
22000-23000	1125.60	128.70	131.70	138.30	142.42	1 -37.96	-20.00	-13.00	-11.95	2.03	1 1	0.0 :	0.2	3.7	ŧ
28000-24000	1120.80	124.00	127.20	132.70	136.50	1 -31.98	-18.04	~13.00	-10.00	-2.63	1:	0.0 1	0.2	2.2	ŧ
24000-28000	1116.80	110.00	122.70	127.40	150.55	1 -31.85	-18.04	-12.96	-10.00	0.00	11	0.0	0.0	2.4	
25000-26000	1112.30	116.00	118.50	122.50	128.27	-30.00	-17.96	-13.00	-11.08	-3.98	11	0.0 :	0.2		•
28000-27000		112.20	114.60	117.90	120.28	-22.03	-18.01	-12.03	-11.95	-3.98	: 1	0.0 :	0.0	1.7	1
27000-20000		108.10	110.60	113.60	115.50	-18.04	-14.00	-12.03	-10.00	-8.02	1.1	0.0	0.0	1.1	ı
20000-20000	1100.33	104.80	100.60	109.00	110.70	1 -18.04	-13.98	-12.03	~10.00	-7.97	: 1	0.0 :	0.0	0.2	ţ
28000-80000	1 98.90	101.10	105.00	108.10	108.70	1 -17.98	-13.98	-11.98	-10.00	-7.97	1.1	0.0	0.0		
30000-31000	1 62.72	97.90	80.60	101.40	102.70	-15.04	-12.03	~10.00	-10.00	-7.97	-++	0.0 ;	0.0	0.0	
31000-32000		84.70	96.30	90.00		-27.94	-12.03	-10.00	-10.00	-7.97	- 11	0.0	0.0		
12000-11000		91.10	92.00	84.41		-13.00	-12.03	-10.00	-10.00	-7.97	ii	0.0	0.0		
33000-34000			89.40	80.80	01.60	-22.03	-12.03	-10.00	-10.00	-7.97	1.1	0.0	0.0		
34000-38000		88.90	46.80	87.70		1 -23.98	-10.00	-10.00	-7.87	-7.87	1.1	0.0	0.0		
													-		_

1200Z FIGURE B-11-4-C B-187

GRANTLEY ADAMS

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE				RCENTIL			SRLA THE FE	RCENTIL	ES		NORM THE FE	AL ERCENTI	LES .		SUB THI FE	RCENTI	_ES
27 MSL :		FRQ	1.0%	50%	90%	7.FAC	1.2%	50%	90%	%FRQ	10%	೨ ೦%	90%	%FR0	10%	ちいん	911%
SFC -500		8.3	47	240	208	15.0	65	240	:28	98.0	1578	4330	12893	51.9	197	240	338
2 00−1000		0.2	295	295	295	0.0				2.7	98	2547	17038	9.9	98	492	1181
1000-1500		0.0				2.7	78	591	1299	1.6	98	1772	33872 :	0.5	197	295	591
15 00-2000		1.7	98	295	591	5.8	구입	295	787	4.2	96	1969	7460 :	ψ. o			
2000-2500		5.2	197	295	599 :	7.8	98	591	1152 .	6.5	197	1624	4458 :	v.9	98	295	984
250 0 3000		5.2	197	295	591	10.5	⇒ e	344	886 .	9.9	48	1772	6713	2.5	98	197	689
こいひりょうきりり		2.2	98	344	728 .	6.5	78	295	915 .	10.1	78	1083	2943 .	4.2	98	492	1398
"5 00~4000		4.5	98	394	63V	6.9	98	295	886	7.9	48	1083	8366	3.4	98	262	1280
◆ • • • • • • • • • • • • • • • • • • •		7.2	98	492	689 .	9.9	98	492	787	10.1	98	689	5955	5.2	98	394	787
45 50~5000	1	7.1	197	295	591	16.2	98	197	689 .	18.0	98	1476	9212 :	6.3	98	295	65 0
300 0-6000	:	9.6	98	394	591	26.4	96	295	699		98	4330	29620	10.6	197	492	1181
●◇ ○○ - 7○○○		9.9	98	295	522	15.1	98	295	689	23.9	98	1248	28282	7.9	98	492	1398
7000-8000		7.4	197	295	571	11.7	95	147	591	20.1	96	2461	27790 :	7.4	98	394	1181
8000-9000		6.5	99	295	492 :	9.5	98	295	492	16.3	98	2165	26195 :	11.3	98	394	1378
9000-10000		4.7	98	197	394	9.6	98	295	394	16.7	98	787	25329 :	13.3	98	394	1004
10000-11000		5.2	98,	197	394 :	9.0	98	197	492 :	24.2	98	2707	24827 :	12.6	98	591	1319
11000-12000		5.9	98	197	295	9.7	98	197	294	18.3	98	1772	23272 :	11.3	98	492	1280
12000-13000 :		4.1	98	197	295	7.4	96	:97	394	15.5	98	2461	22612 :	9.5	98	492	1319
13000-14000		4.3	98	197	197 .	7.0	98	98	384	16.2	98	1673	21785	10.8	98	394	1083
14000-15000 .		3.0	98	197	295	6.7	98	197	295 .	14.8	98	3511	20466	8.3	98	492	1093
		2.3	98	98	256	6.8	98	98	295 .	12.8	98	2116	19521 .	7.9	98	492	905
16000-17000 :		1.3	131	164	230	7.1	78	164	240	11.0	486	3609	18635	9.9	217	623	997
17000-18000		0.4	164	- 46	326	1.1	164	164	i erc	9, 9	722	3609	17766	8.3	164	492	1181
18000-19000		0.4	164	164	164	1.6	164	164	328	12.8	492	6233	16404	11.0	164	492	820
19000-20000		0.0				υ.9	164	328	52E .	5.5	9 7 4	14928	15748	4.2	164	492	820

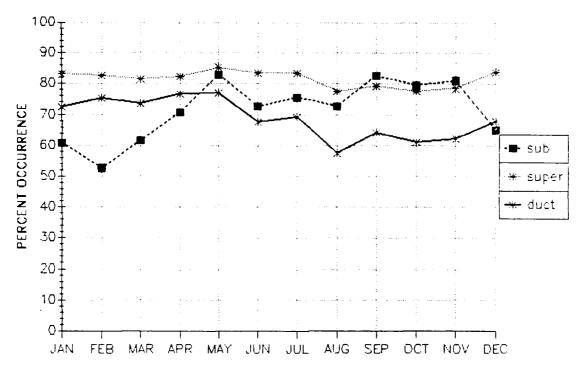
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BASE	:		DUCT	S RCENTIL	.ES .		SALA THI FE	S RCENT L	.ES			NORMI THE E	AL ERCENTI	LES .		SUE THE PE	FCENT I	_ES
FT MSL	:	%F FC	10%	5 0%	90%	%F FO	$Y \cap X$	50%	900	:	7.FRC	1.0%	3. %	90%	%FFC	10%	501.	90%
SFC-500		14.	95	24	578	26	98	197	338	• -	97.1	1252	46.6	34827 :	38.4	197	240	338
300-1000		ن. 5	98	197	295	0.7	98	443	787	;	3.5	966	5715	34680	9.2	96	98	98
1000-1500	:	0.4	244	704	794	9	98	708	1270		1.4	98	1575	33941 .	1.5	98	394	1476
1300-2000		4.4	98	246	447	7.5	98	394	984	:	5.1	98	3199	11637 :	0.4	98	197	295
2000-2500	•	4.4	99	295	551 :	8.4	98	492	984		6	443	2608	14341 .	0.9	98	591	1378
2500-3000		3.5	98	295	492	5.6	98	492	686		10.5	98	2967	7382 :	1.1	98	794	2854
こうひじー きもりい		1.1	197	295	591	5.8	98	295	669		6.3	98	1230	5069	2.4	98	443	1181
3500-4000	:	2.7	197	794	689	4.9	98	고무를	1004		6.2	98	1772	5462 .	3.3	295	394	1290
4000-4500		4.9	98	294	787	6.9	99	744	768		6.5	98	886	5708 .	3.5	108	541	7 8 7
4500-5000	:	9.5	138	394	492	13.4	98	295	827	i	11.1	98	1378	14344	4.9	98	295	689
5n00-4000		19.2	197	394	591	23.4	98	394	787	:		98	4201	29561	10.4	197	492	1240
6 000-7000		8.5	98	344	493 .	12.7	98	295	689		22.5	98	3839	20557	6.5	98	591	1102
70 00-8 000		5.8	98	295	492	7.5	98	295	699		15.3	98	4134	27494 :	6.7	98	492	1004
8000-9000		5. 9	98	295	- 9 A	9.0	98	197	492		16.7	98	1721	26510	10.3	96	541	1476
9000-10000	1	4.5	98	197	492 :	5.6	78	197	453	:	13.0	98	1132	25437	10.4	98	492	1092
10000-11000	;	6.1	98	197	344	11.0	98	197	394		21.9	⇒8	1969	24738 :	10.6	98	394	1172
11000-12000		4.7	98	197	295	6.7	98	197	295		14.9	98	3642	23646	9.7	98	591	1299
12000-13000	,	2.5	98	197	335 -	7.4	96	197	295		14.7	98	2740	22612	11.3	98	472	:181
17000-14000		7.2	98	197	207	5.8	98	197	292		12.7	98	3679	21628	8.8	98	591	984
14000-15000		2.6	48	48	285	4.9	98	197	295	:	13.2	98	1870	20486	9.2	98	394	787
18000-16000		1.3	98	98	197	3.4	98	98	295	• -	10.9	98	3347	19649	6.8	98	492	1050
+ ●0000-17000+		0.7	96	:48	3.6	7.1	125	164	249		10.1	302	4921	18537	8.5	364	492	99:
1.º000-18000	1	9.2	164	164	164	1.4	164	164	328		7.6	984	4019	17717 '	5.8	164	656	1313
1₩0,00=19000		99 S	164	164	164	1.4	:64	164	ಾ⊐ಅ		10.8	591	15912	16569	କ. 🛎	164	497	820
1 9:⊭30-2 0006	:	0.0				0.2	164	164	164	,	7.5	541	15092	15748 :	5.8	164	492	919

1200Z

FIGURE B-11-4-D B-188 GRANTLEY ADAMS MONTHLY

AP PERCENT OCCURRENCE FREQUENCY





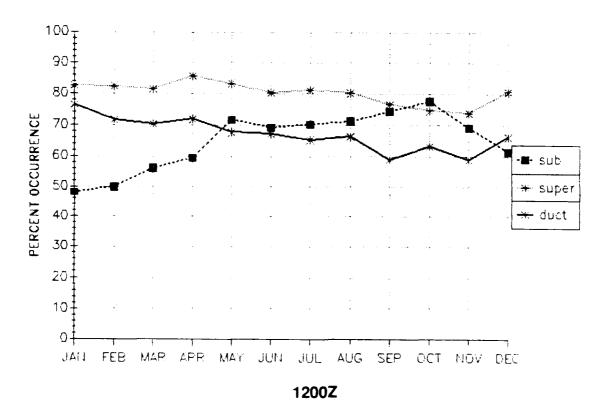
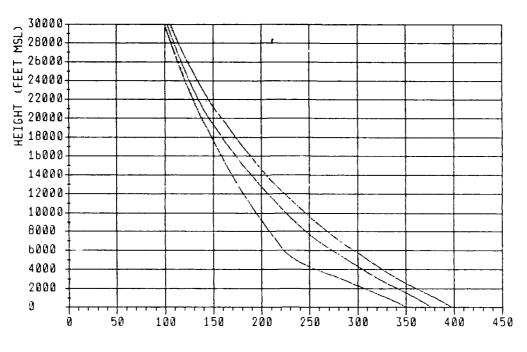


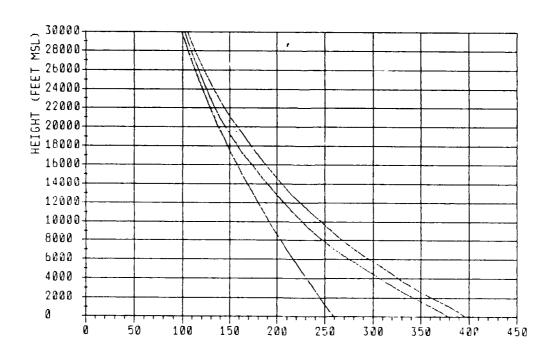
FIGURE B-11-5 B-189

PIARCO WET SEASON

N PERCENTILES



N (N-Units) 0000Z

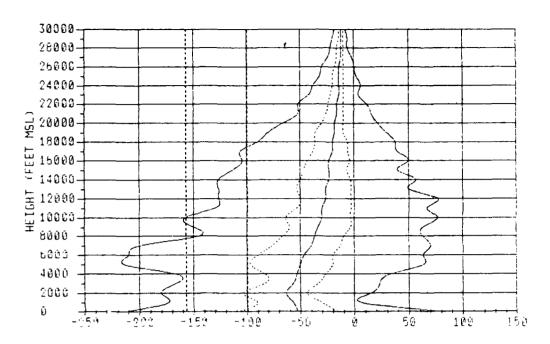


N (N-Units) 1200Z

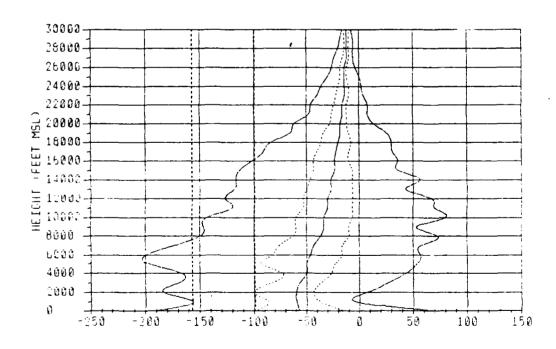
FIGURE B-12-1-A B-190

PIARCO WET SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-12-1-B B-191

PIANC	9										WEI SE	ASON	•
ECT FC MEL	18	N PERCI	ENTILES CON	80%	55%	1%	DWD1	PERCENT 50%	TLES 80%	88%	PERCENT	OCCURRE	NCE SUB
SFC-800 800-1000 1000-1800 1900-2000	1357.40 1348.69 1338.00 1327.41	370.86 380.78 382.80 343.40	362.88 372.25 364.56 356.19	392.06 383.50 378.06 366.19	392.50 382.38 373.04	1-278.83 1-122.81 1-180.00 1-205.86	-01.26 -03.33 -100.00	-62.80 -84.16 -84.16 -60.41	0.00 -28.00 -27.08 -33.33	12.50 16.66 6.25	1: 19.2 1: 0.6 1: 1.8 : 1: 4.6	30.3 : 4.8 : 6.4 : 14.1 :	19.6 2.4 2.7 2.5
2000-2800 1300-3000 3000-3800 3800-4000 4000-4800	1314,78 1300.69 1266.83 1278.43 1284.71	332,25 320.00 309.00 299.75 281.75 264.00	346.25 335.06 324.75 316.00 307.69 300.00	306.06 340.69 330.36 327.06 319.06 311.66	301.69 341.90 333.19 329.33	:-187.50 :-156.25 :-172.81 :-166.00 :-147.91 :-174.25	-98.83 -87.80 -77.06 -78.00	-64.78 -60.41 -76.25 -54.16 -72.08 -70.00	-43.76 -39.68 -37.50 -29.16 -27.08 -22.91	20.83 18.86 25.00 20.83	11 4.0 1 11 2.4 1 11 2.4 1 11 2.6 1 11 1.0 1 11 3.7 1	15.1 : 12.5 : 7.4 : 6.4 : 8.4 : 9.6 :	1.8 2.6 3.0 3.6 4.4
8000-8000 8000-7000 7000-8000 8000-8000 8000-10000	1244.70 1229.01 1217.50 1208.80	266.50 250.10 255.60 223.50 214.10	287.88 273.06 289.56 248.40 234.80	301.00 285.88 272.69 288.88 247.10	\$09.00 293.80 279.86 267.19	[-101.54 [-103.33 [-109.56 [-146.61	-85.41 -81.25 -76.68 -66.66	-47.81 -43.78 -40.10 -37.80 -33.33	-22.91 -16.66 -13.26 -10.03 -6.64	64.58 66.86 72.91 66.66	11 6.2 ! 11 6.3 ! 11 6.6 ! 11 4.0 !	14.8 : 13.2 : 10.8 : 9.6 : 7.2 :	11.6 12.4 14.1 18.5 18.8
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1188.40 1179.97 1173.80	205.70 186.80 188.70 178.70 172.10	224.70 214.40 205.30 196.10 187.60	238.00 225.10 215.40 208.50 197.60	231.80 221.10 211.70	1-163.36 :-126.69 :-120.06 :+119.92 :-123.30	-83.38 -80.00 -80.00	-30.07 -29.95 -28.69 -28.68 -28.68	-6.64 -6.64 -3.39 -0.64	69.92 56.77 66.66 50.00	1; 4.6 : 1; 2.0 : 1; 2.3 : 1; 2.8 : 1; 2.4 :	9.2 : 7.0 : 6.4 : 6.6 : 7.5 :	21.8 17.9 16.3 17.9
15000-16000 16000-17000 17000-16000 16000-18000 19000-20000	:156.80 :151.60 :145.80	165.70 160.00 153.90 148.00 142.70	179.10 171.80 164.00 158.60 149.40	189.80 182.20 174.00 188.30 158.50	188.40 178.10 170.60	1-106.84 -98.26 -98.16 -83.96 -67.96	-42.03 -37.86 -38.01	-23.30 -22.46 -21.95 -20.00 -18.04	-8.84 -4.88 -7.97 -8.05	44.01 41.95 32.03	(1 2.3 (11 1.6 (11 1.1 (11 0.7 (11 0.1 (5.2 : 4.0 : 3.5 : 2.4 : 0.7 :	14.8 16.2 16.3 16.5 10.6
20000-21000 21000-22000 22000-23000 23000-24000 24000-28000	:132.00 :127.70 :122.00	138.00 133.40 129.00 124.20 120.10	143.40 138.00 132.60 127.80 123.00	151.90 148.60 139.80 133.90 128.30	149.20 143.10 137.20		-28.01 -22.03 -20.00	-16.01 -16.01 -10.84 -14.06 -13.88	-10.00 -10.00 -10.00 -10.00 -10.00	12.03 6.02 3.96	1: 0.1 f 1: 0.2 l 1: 0.1 : 1: 0.0 :	0.1 : 0.4 : 0.2 : 0.0 : 0.1 :	8.9 7.6 5.8 5.8
25000-26000 26000-27000 27000-26000 28000-28000 28000-30000	:111.30 :107.20 :103.70	118.20 112.40 108.30 104.70 101.30	118.80 114.80 110.70 108.70 103.10	123.19 118.40 113.70 109.20 105.30	120.60 115.60 110.80	: -30.00 : -28.01 : -22.03 : -20.00	-16.01 -16.01 -14.06	-13.98 -12.03 -12.03 -12.03 -11.96	-10.00 -10.00 -10.00 -10.00	0.00 -2.03 -3.96 -6.02 -7.97	11 0.0 1 11 0.0 1 11 0.0 1 11 0.0 1	0.0:	2,9 1,9 1,6 0.9 0,3
30000-31000 31000-32000 32000-33000 33000-34000 34000-38000	94.00 90.40 87.40	\$6.00 \$4.80 \$1.20 \$9.10 \$5.90	99.70 96.30 92.80 89.40 86.80	101.50 98.00 94.50 90.80 87.70	99.00 95.40 91.60	1 -18.01 1 -20.00 1 -13.96 1 -26.01	-12.03 -12.03 -12.03 -12.03	-11.85 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -7.97 -7.97	:: 0.0 : :: 0.0 : :: 0.0 : :: 0.0 :	0.0 :	0.2 0.2 0.2 0.0 0.0

PIARCO

WET SEASON

$\overline{}$	^	^	^	-
Lł	u	l J	u	_

HGT FT MBL	: : 1%	N PERCEI	NTILES SOX	90%	99X	:	1%	DMD 10%	H PERCEN	TILES 90%	9 9 X	11	PERCENT DUCT :	OCCURR	ENCE :
SFC-900 900-1000	1342.22	363.38	375.00 36	1.69	398.50 392.00	1-12	9.18	-128,47 -81.28	-56.25 -56.25	17.38 -27.08	100.69	::	10.9 :	27.4 :	27.4 ! 4.5 !
1000-1500 1500-2000 2000-2500	1283.43 1280.00 1248.80	345.69 335.19	357.56 30 347.75 35	75.78 86.69 56.69	362.56	1-18	8.29 6.48	-81.28 -89.58 -100.00	-58.33 -80.41 -62.60	-33.33 -39.58 -43.75	9.71 -8.33 0.00	11	1.0 ; 2.6 ; 3.4 ;	4.7 1 10.4 1 11.5 2	1.8 1 1.7 1 1.7 1
2500-3000 3000-3800 3800-4000	1243.07	310.37	320.56 33	6.26 6.06 27.75	352.66 342.32 333.69	:-17	0.83	-95.63 -87.50 -79.16	-60.41 -50.33 -54.16	-43.76 -39.68 -33.33	6.25 16.66 20.83	11	3.3 1 2.6 : 3.2 1	11.2 7.9 5.4	2.1 : 3.5 ! 3.6 !
4000-4800 4800-8000	1232.20	290.73	309.38 31	2.60	320.04 \$10.06	1-17	0.83	-77.08 -77.08	-52.08 -50.00	-29.10 -25.00	33.33 60.41	11	3.8	9.3	4.2
9000-8000 6000-7000 7000-8000 6000-8000 9000-10000	1222.90 1218.70 1209.40 1203.00 1198.48	248.80 234.80 223.30	274.00 26 260.50 21 247.50 26	01.78 86.79 73.50 80.38	310.00 293.78 280.08 267.06 284.20	:-17: :-10: :-14:	9.32 0.02 8.37	-85 -76 · 3 -72 · 81 -83 · 41 -60 · 02	-50.00 -43.75 -41.66 -36.71 -33.33	-22.81 -16.66 -16.66 -10.42 -6.77	62.08 54.18 53.25 66.66	11	0.7 1 6.0 : 4.6 : 3.6 : 3.7 :	13.9 10.8 10.1 8.8 7.5	9,1: 11.3: 11.4: 13.6: 14.8:
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1184.70 1178.99	188.80 188.20 179.50	214.80 22 205.80 21 186.60 20	37.10 28.10 16.70 06.20	243.50 232.20 221.20 211.80 202.50	:-11 :-11 :-11	0.66 0.62 0.02	-80.02 -83.28 -83.25 -80.00 -80.00	-33.33 -30.07 -28.88 -20.69 -20.69	-0.04 -0.64 -8.64 -0.64	78.85 63.26 60.02 43.36 46.61	: 1	3.5 : 2.7 : 2.1 : 2.0 : 2.7 :	0.3: 0.3: 6.4: 0.4:	20.6 : 17.1 : 17.3 : 18.7 :
18000-18000 18000-17000 17000-18000 18000-18000	1181.30	159.60 153.60 147.60	171.30 16 163.30 17 185.80 16	39.30 81.50 73.10 85.30	•	-8	9.68 7.73 5.91 0.00 3.90	-46.61 -42.03 -37.86 -36.83 -32.03	-23,44 -23,30 -21.85 -20.00 -18.04	-8.84 -10.00 -10.00 -10.00 -11.85	36.89 33.68 30.00 26.01 12.03	11	2.0 0.9 0.6 1.0 0.2	6.9 1 4.2 3 2.0 1 2.3 1	14.2 : 13.3 : 12.1 : 12.4 : 8.2 :
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	:131.70 :127.40 :122.70	133.20 128.90 124.10	137.30 14 132.30 13 127.40 13	50.80 14.40 38.40 12.60 27.10	142.30 136.10	1 -4	6.01	-27.88 -24.08 -22.03 -20.00 -30.00	-18.01 -18.01 -18.94 -13.98 -13.98	-11.95 -11.95 -11.95 -10.00 -11.95	11.95 8.05 4.06 1.95	7 ; 1 ; 1 ; 1 ; 1 ; 1 ;	0.1 ; 0.0 ; 0.1 ; 0.0 ; 0.1 ;	0.4 : 0.6 : 0.4 : 0.2 : 0.3 :	8,8 5.0 5.2 4.3 4.0
25000-28000 26000-27000 27000-28000 26000-28000 28000-30000	1110.90 1108.60 1102.87	112.20 108.10 104.50	114.80 11 110.40 11 108.40 10	12.10 17.80 13.00 08.80	124.70 119.80 115.10 110.20 108.20	: -2: : -2:	3.98 0.00 9.04	-17.96 -18.01 -15.64 -13.96 -13.96	-13,98 -12,03 -12,03 -12,03 -11,95	-11.98 -11.98 -10.00 -10.00	-2.03 -4.08 -8.02 -7.87 -7.97	11	0.1 : 0.0 : 0.0 : 0.0 :	0.1 0.0 0.0 0.0	1.9 : 1.8 : 0.9 : 0.6 :
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	1 91.90 1 98.27 2 94.80	97.80 94.80 91.10 88.00 85.80	96.10 i 92.60 i 99.30 i	01.20 97.74 94.30 90.70	95.20	: -2 : -1 : -2	2.03	-12.03 -12.03 -12.03 -11.98 -11.98	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -7.97	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 : 0.0 : 0.0 : 0.0 :	0.1 0.1 0.1 0.0

1200Z FIGURE B-12-1-C B-192

PIARCO WET SEASON

THICKNESS STATISTICS

BASE		DUCT	S RCENTIL	cc ,		SRLF	S ACENTIL				NORM	AL ERCEN' I	. 5 C		SUB THE FE	POENTI.	66
FT MSL	%FRQ	10%	50%	90%	WE RO	10%	50%	90%	%F	RC	19%	50%	\$1.7	%FRC	10%	5//%	٠.
9FC-500 :	 19.2	157	256	354 :	32.3	98	256	354	97	. ទ	984	5049	34677 :	19.6	157	256	
500-1000 :	0.3	197	246	591	1.7	98	295	1102	4	. 6	95	4330	30217	Q. 2	96	246	lie.
1000-1500 :	1.5	98	295	748	4.7	98	492	1083 .	2	. 9	98	3543	16005 (ı.ā	⇔B	394	59 :
1500-2600 :	4.0	98	394	689	10.0	98	492	1087	۵	. 4	276	2118	22796	0.9	136	245	.417
2000-2500 :	2.3	98	295	591 :	7.5	98	394	784	8	. 0	98	3937	19611 .	1.3	구동	7.44	1476
2500-3000 .	1.4	98	295	591	5.4	98	591	1181	9	. 5	591	3396	11516	1.6	146	541	1.52
3000-3500 .	2.0	197	394	600 :	2.6	98	197	984	5	. 9	394	3248	29279 .	1.4	177	492	1778
3500-4000 :	1.5	197	295	472	3.9	98	295	627 .	5	. 7	699	2116	19089	2.1	157	794	984
4000-4500 :	1.1	98	295	709 :	4.3	98	492	778	5	. 6	98	エラフラ	11378 :	2.8	:97	463	787 .
4500+5000 :	3.1	98	295	689	6.B	98	794	797	8	. 0	98	2362	18045	5.6	197	394	686
500 0- 6 000	 4.2	197	295	512 :	10.3	98	394	787 .	17	. 4	98	2264	14009 .	7.5	46	492	1987
6000-7000 :	5.2	98	295	561 (9.5	98	295	689	15		98	2559	1 3996	9.0	197	492	784
700 0- 8 000 :	4.9	98	295	492	8.9	98	295	591 :	18		98	2165	27297 :	9.0	48	394	984
8000-9000	3.6	98	197	394 :	7.4	98	295	492	16		98	1378	11122 :	11.5	98	492	: 290
9000-10000	2.3	98	197	374	3.8	98	295	492	14	. O	9B	1476	25201	11.0	98	294	866
10000-11000	 4.5	99	197	394	8.0	98	197			. 2	98	2264	24365	12.6	9 ₅	394	1004
11000-12000 .	2.2	99	197	295	6.3	98	197	394 :	16	. 🗅	98	1870	23262	12.0	98	294	984
12000-13000	2.3	98	98	295	2.9	99	197	394 .	17	. :	98	1870	22571 .	12.7	¥8	491	964
13000-14000 .	2.7	98	197	295 :	5.7	98	98	295	17	· 0	98	2362	21392	12.9	98	493	984
14000~15000 .	2.3	98	96	197	7.1	96	197	344	16	. 5	98	2001	20407	10.5	46	295	865
15000-16000	 2.1	98	96	197	4.6	96	197	295	13	. 4	98	1969	19521	11.6	98	492	:0:7
16000-17000 :	1.3	98	164	180 :	3.6	131	164	321 -	1 5	. 2	328	3773	18701 :	13.0	164	492	974
17000-18000 .	1.1	164	164	328 :	3.4	164	164	328	13	. 9	228	2609	17386	10.4	164	491	62
18000-19000 :	0.7	164	164	164	2.4	164	104	328 :	15	. 5	656	6561	10733	12.5	: 54	442	82
19000-20000 :	0.1	164	164	164	Ů.7	164	164	164	7	. 9	820	12795	15564	7.3	:64	492	ంచిం

0000Z

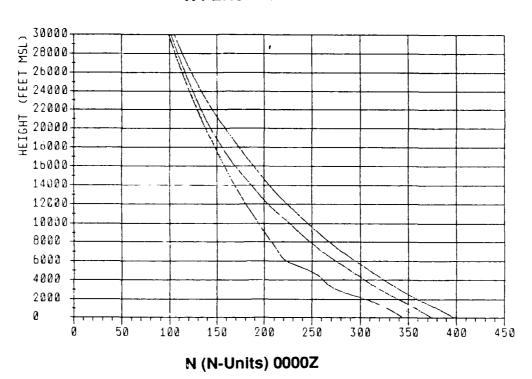
BASE				S RCENTIL	£9 .		SRLA THE FE	S RCENTI	_ES		NORM THK P	AL ERCENTI	LES .		SUE THE PE	RCENTI	_ES
FT 450		%E RO	: 0.	= / •/.	90%	WERG	10%	20%	90%	45EQ	10%	50%	90%	%FRC	1 10%	50%	90%
SFC-500	- + -	10.9	98	256	354 .	27.4	98	256	394 .	96.7	354	2404	24877	27.4	197	295	394
500-1000		Ų. 4	99	344	591 :	1.4	98	492	1181 :	8.5	118	5708	15985	1.0	98	492	1073
1000-1500		0.7	118	471	787 .	2.0	98	59:	1200	2.5	98	1541	33872 .	0.4	96	295	669
1500-2000	- 1	2.2	98	295	689	7.5	98	492	1191	4.1	98	3396	28872	0.9	98	394	1161
2000-2500		2.1	98	295	935	5.8	98	591	1181 .	5.5	98	3347	32967	1.2	295	394	Ébo
2500-3000		2.3	197	394	699 .	5.3	98	394	886 :	8.0	98	2461	14311 .	1.2	197	591	1181
3000-3500		1.5	197	394	630 .	3.4	96	394	915 -	6.5	98	2707	13908	2.5	98	394	925
3500-4000		2.1	98	295	591 .	3.1	98	295	984 .	5.6	98	TWAT	17684	1.8	98	294	1119
4000~4500		1.5	197	344	689	3.1	98	492	787	4.1	98	1821	13041	2.8	197	59:	797
4500-5000	:	2.9	187	295	394	6.8	99	394	856	8.4	98	2559	19252	5.5	197	394	686
5000-6000		4.5	98	295	492 .	7.2	98	295	689	13.1	98	2608	29354	7.1	187	492	984
6 000-7000	:	5.0	138	295	492	8.4	48	295	689 :	14.0	98	3051	28380	8.1	9€	447	1087
7000- 8 000	:	3.5	98	295	492 .	7.7	98	295	591	14.0	98	3101	27396	7.9	197	492	1230
8000~ 9 000	;	3.4	98	197	394 .	0 . z	98	295	591	14.8	9.8	2412	13793	9.7	:97	294	1280
9000-10000		3.3	98	197	394	5.6	98	197	492	12.4	98	1230	25370	11.1	98	394	984
10000-11000		3.0	98	197	295	7.2	98	197	394 :	19.8	98	2362	24610	13.1	177	492	:280
11000-12000		2.6	96	197	364 .	4.5	98	197	394	15.2	46	2215	23459	12.1	95	492	954
12006-13000		1.8	98	197	295 :	5.7	98	197	394 :	16.7	98	2165	22573	12.0	78	294	1095
13000-14000	1.0	1.8	98	98	295 .	2.7	96	197	295	15.6	98	1870	2:566	11.6	99	-94	1965
14000-15000	:	2.6	78	98	295	2.7	98	197	295 .	16.7	98	2625	20604	11.4	÷e	794	787
15000-16000	:	2.0	98	98	197 .	5.1	98	98	295	15.2	98	2707	19620 .	10.5	98	394	932
16000-17000		Ú. 9	1 · =		328 .	4.0	48	164	128	12.1	295	4252	18701	9.7	164	491	984
17000-18000	1 ;	0.6	164	164	154	1.9	164	164	328	11.0	407	چى⊹ىم	17717 :	4.8	104	47.	820
18000-19000		1.0	164	164	164	2.3	164	164	328	17.5	656	15912	16723	5.9	164	492	626
19000-20000		0.2	164	164	154 .	0.8	164	164	262 .	7.5	820	:4918	12384	5.9	154	528	820

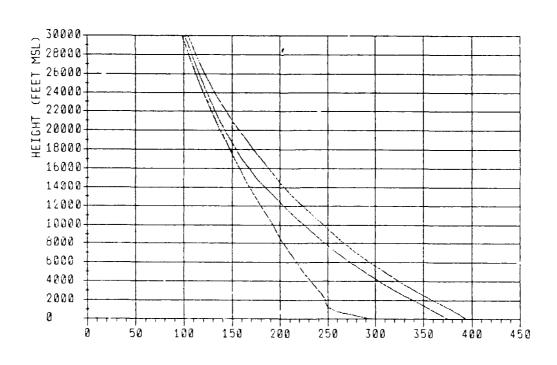
1200Z

FIGURE B-12-1-D

B-193

N PERCENTILES

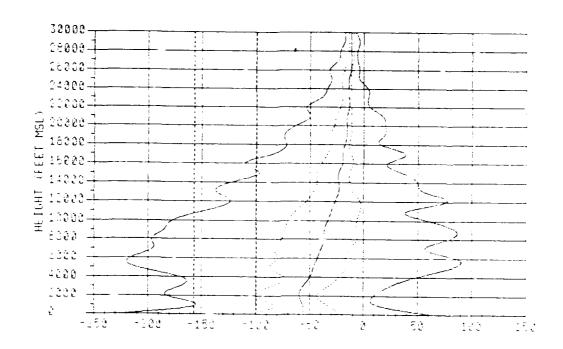




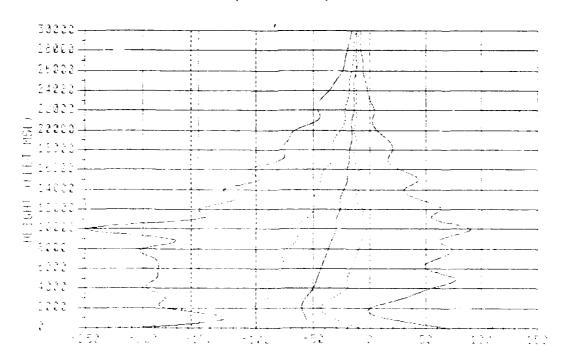
N (N-Units) 1200Z

FIGURE B-12-3-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-12-3-B B-195

PIARCO

WET-DRY TRANSITION

FT MSL	1%	N PERCENTILE:	90%	sex i	DND 1% 10%	H PERCENTILES		PERCENT	OCCURRENCE SRLR SVB
8FC-500 500-1000 1000-1800 1500-2000 2000-2500 2500-3000 3000-3600 3000-4000 4000-4600	:348.06 :338.40 :323.34 :319.90 :310.77 :292.45 :278.40 :272.59 :259.64	387.75 373.16 347.97 362.6 341.51 365.8 334.85 348.5 325.87 340.0 313.75 329.8 302.75 320.1 282.89 311.6 284.89 304.5	8 376.37 1 368.56 9 360.66 0 351.39 8 341.64 9 331.69 9 323.37	399.80 :-289. 388.86 :-109 379.47 :-116 369.37 :-143 359.74 :-172 349.28 :-179 330.16 :-172 322.19 :-163	.98 -70.83 .86 -70.83 .76 -78.18 .91 -98.12 .16 -100.00 .08 -100.00 .50 -79.18	-64.58 -18.75 -47.81 -29.16 -60.00 -31.25 -56.25 -37.50 -56.25 -37.50 -56.25 -25.25 -48.86 -18.87	-8.33 -4.60 -4.17 -4.17 19.50 29.16 37.60	1 20.0 i 0.9 i 0.7 i 1.6 i 4.1 i 3.6 i 3.2 i 1.7 i 2.9 i	42.6 : 10.6 : 1.8 : 0.0 : 2.5 : 1.6 : 0.7 : 2.0 : 1.8 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6 : 1.6
#000-8000 #000-8000 #000-7000 7000-8000 #000-9000 #000-10000	:252.68 :235.27 :210.24 :213.40 :208.70	287.21 280.19 285.2 241.37 270.8 222.80 255.4 210.80 237.9 201.50 221.6	5 309.00 5 288.75 9 284.38 0 271.50 0 259.56	314.24 -222 306.38 -235 291.09 -246 278.25 -304 266.88 -262 253.50 -260	.40 -89.58 .80 -100.00 .04 -103.38 .02 -103.25 .01 -88.81	-47.81 -14.80 -48.83 -8.29 -43.75 -9.88 -41.66 -10.42 -38.71 -8.84 -33.33 -8.77	74,61 96.74 63.85 66.71	7.0 i 11.4 i 11.4 i 11.4.3 i 11.6 i 11.6 i	15.0 : 11.5 : 22.1 : 16.1 : 20.8 : 16.7 : 21.6 : 16.6 : 18.4 : 17.6 : 16.5 : 16.6 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1185.10 1178.80 1172.54 1186.90	194.29 207.1 196.90 196.6 180.50 166.2 174.10 179.9 168.20 172.6	0 222.70 0 212.29 0 202.60 0 194.10	242.30 !-220 231.20 !-168 220.10 !-129 210.90 !-129 201.60 !-100	.43 -86,84 .95 -46.61 .95 -36.71 .33 -33.33	-23.44 -10.03 -23.30 -10.03 -20.06 -10.03 -20.06 -13.28 -20.06 -13.28	83.38 89.92 43.38 28.95	1	13.8 : 16.8 : 9.8 : 11.6 : 6.5 : 12.6 : 7.1 : 11.1 : 4.2 : 8.0 :
15000-16000 16000-17000 17000-16000 18000-19000 19000-20000	1156.20 1151.10 1145.40 1140.60	182.70 188.8 187.40 181.2 182.10 188.4 148.80 149.9 141.80 144.4	0 178.80 0 170.50 0 162.84 0 155.69	183.50 : -79 185.70 : -87 177.20 : -71 189.80 : -88 181.83 : -58	.07 -30.00 .95 -26.89 .01 -26.01 .61 -23.86	-19.92 -13.28 -17.96 -14.06 -17.96 -14.06 -18.01 -13.98 -16.01 -13.98	19.97 20.09 12.03 4.97	1! 0.4 : 1: 1.1 : 1: 0.7 : 1: 0.4 ! 1: 0.2 !	2.2 : 6.9 : 3.1 : 6.9 : 1.1 : 7.1 : 1.6 : 6.0 : 0.2 : 3.6 :
21000-22000 22000-23000 23000-24000 24000-25000	:131.40 :127.20 :122.40 :118.30	132.49 135.0 128.10 130.6 123.50 128.1 119.30 121.5	0 141.70 0 136.20 0 130.40 0 125.10	148.58 : -44 142.20 : -41 138.00 : -28 129.90 : -32	.01 -20.00 .99 -20.00 .20 -17.96 .03 -18.01	-14.08 -13.98 -13.98 -12.03 -13.98 -11.95 -13.98 -11.95 -12.03 -11.95	3.98 -1.99 -1.72 -8.02	0.01	0.0 ! 3.4 ! 0.0 ! 2.0 ! 0.0 ! 2.8 ! 0.8 ! 1.1 !
28000-27000 27000-28000 28000-28000 28000-30000	106.70 103.30 100.00	111.70 113.7 107.60 109.6 104.10 105.6 100.80 102.4 97.60 99.1	0 111.80 0 107.60 0 104.00	119.70 : -23 115.00 : -18 109.90 : -18 105.90 : -18	.98 -14.08 .04 -13.98 .01 -13.98 .01 -12.03	-12.03 -11.95 -12.03 -10.00 -11.95 -10.00 -11.95 -10.00 -10.00 -10.00	-9.63 -9.00 -10.00	0.0 1	0.0 : 0.7 : 0.0 : 0.7 : 0.0 : 0.2 : 0.0 : 0.2 :
31000-32000 32000-33000 33000-34000 34000-35000	90.10 87.10	94.40 95.8 90.90 92.4 87.80 89.1 85.70 86.6	0 94.00 0 90.50	98.60 : -13 95.00 : -12 91.30 : -20 98.10 : -20	.03 -12.03 .00 -11.88	-10.00 -10.00 -10.00 -10.00 -10.00 -8.00 -10.00 -7.87	-7.97 -7.97	0.0 : :: 0.0 : :: 0.0 :	0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.0 : 0.2 :

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ROT FT MSL	1%	N PERCE		90% 8	9%		1%	DND	E PERCEN	TILES 90%	99%	1:	PERCENT DUCT :	OCCURR	ENCE :
SFC~900 500-1000	:319.40 :258.06	350.37	384.06 37	7.00 386	. 45	:-245 :-142	. 50	-143.78 -77.08	-60.41 -54.16	10.42	109.60	11	13.6 :	34.1	20.5
1000~1500 1500~2000	1284.20					1-115		-72.91 -77.08	-52.08 -54.16	-29.16 -33.33	6.25 -9.75	11	1.0 1	1.9	1.6:
2000-2500	1247.36	325.06	339.88 35	0.08 358	.06	:-183	. 33	-97.91	-56.25	-39.58	-12.50	1:	3.9	11.5	1.6 1
2500~3000 3000~3500	1239.70					:-177 :-180		-100.00 -80.53	~56.26 ~54.16	-37.50 -29.16	7.87 34.06	1 1	4.8 :	7.9	2.3 : 4.2 !
3500~4000 4000~4800	:236.26					1-165		-81.25	-50.00	-22.91	80.00	: 1	3.2 :	7.1 1	L.B :
4800-8000	1232.67					1-167		-72.91 -81.25	-47.91 -45.83	~18.75 -18.66	37.50 88.35	1 1	3.2 : 6.9 !	8.3 t	7.1 1
5000-6000	:226.24					-208		-95.83	-40.63	-16.66	60.25	-++-	10.4 :	19.1 :	12.1
8000-7000 7000-8000	1220.85					1-239		-93.76 -100.00	-43.78 -41.66	-16.66 -13.26	50.00 73.80	11	11.2 :	18.1 1	12.2 :
8000-9000	1205.30	210.00	236.60 25	7.75 265	.05	1-256	. 62	-86.71	-30.71	-0.77	80.08	11	14.1 :	17.6	18.7
9000-10000	198.14	201.40	221.50 24	5.10 252	.60	1-219	. 9 2	-70.05	-29.95	-8.84	70.08	1:	9.8 :	13.7 1	14.8
10000-11000	1191.90					:-253		-66.66	-23.44	-10.03	59.60	1.1	11.4	13.8 :	16.9
12000-13000						1-159		-83.38 -43.38	-23.30 -20.05	-13.28 -13.28	80.02 50.00	11	5.8 : 4.3 I	9.7 : 7.1 :	11.0 :
13000-14000						1-116		-38.71	~20.08	-13.28	29.95	: :	2.6 :	8.9 :	8.6 :
14000-15000	• • • •					:-108		-16.59	-20.06	-17.26	23.44	11 -++-	2.6 (4.2 :	6.8
15000-16000						-83		-33.33 -29.98	~19.92 ~17.96	-13.41 -14.94	13.28	1.1	0.9 :	2.5 1	5.2
17000-18000	:150.86	152.00				-84		-26.01	-17.96	-13.98	10.00	11	0.7	1.9	4.0 1
18000-19000						: -G2 : -G1		-23.98 -23.98	~16.01 ~16.01	-13.98 -13.98	11.95	11	0.4:	0.7 :	5.0
	. •					·						; ; - • • •	0.1:	0.7 ;	2.3 1
20000-21000	133.90				.00	: -49		-20.00 -20.00	~16.01 ~14.08	~13.98 -13.99	-1.98 -5.94	11	0.1 :	0.4 :	2.2 1
22000-23000		128.05	130.30 13	4.60 140		1 -41	. 27	-17.96	-13.98	-12.03	-2.03	t :	0.0	0.3 1	1.2:
23000-24000						: -33		-18.01 -18.01	-13.99 -13.99	-11.95 -11.95	-8.02 -8.02	11	0.0 ;	0.0 :	0.4 :
25000-26000	- +					23		-14.06				- • • -		•	
26000-27000	110.70					-21		-14.06	-12.03 -12.03	-11.95 -11.95	-0.05	1:	0.0 1	0.0 !	0.7 :
27000-28000 28000-29000						: -18		-13.98	-12.03	-10.00	-10.00	1.7	0.0:	0.0	0.1
29000-30000						-16		-12.03 -12.03	~11.95 ~11.95	-10.00 -10.00	-9.51 -10.00	1 1	0.0 :	0.0:	0.0 :
30000-31000		97.50			.80	-13	. 98	-12.03	-10.00	~10.00	-7.97	11	0.0 :	0.0	0.1:
31000-32000 32000-33000	93.50	94.30				-14		-12.03	-10.00	-10.00	-7.97	1.1	0.0	0.0:	0.3:
33000-34000	97.00	87.70				1 -13		-12.03 -10.00	-10.00 -10.00	-10.00 -8.08	-7.97 -7.97	1 1	0.0:	0.0 (0.0
34000-38000	: 84.60	85.60	80.00 8	7.40 88	.00	: -10	. 04	-11.05	-10.00	-7.97	-7.97	: :	0.0	0.0	0.0:

1200Z FIGURE B-12-3-C B-196

PIARCO

WET-DRY TRANSITION

THICKNESS STATISTICS

BASE	:		DUCT	S RCENTIL	ES		SRLA THY PE	S RCENTIL	.ES		NORM THK P	AL ERCENT I	LES :	:	SUB THI FE	PCENT 1:	LES
FT MSL		%FRQ	10%	50%	90%	%FRO	1.7%	50%	90%	%FRQ	10%	5ú%	90%	%FR0	1 1%	50%	ټر،ټ
SFC-500	:	20.0	157	256	354	42.6	98	256	354	98.4	1673	5078	14173	: 6	157	256	754
500~1000	;	0.0				J. 5	492	689	886	2.5	709	3445	8681	0.0			
1000-1500	:	0.2	98	98	98 .	1.8	197	886	1476	0.9	98	8416	10335		197	295	2062
1500-2000	į.	1.6	98	295	492	4.5	98	689	1457 .	2.7	532	7248	7890	€.9	157	-44	401
2000-2500		3.4	157	394	669	7.2	98	394	1102 :	4.5	787	4281	8572	. 9.7	194	747	984
2500-3000	:	2.3	98	394	59:	7.5	96	591	1161 :	6. 1	98	2805	7097	1.8	295	640	1.67
3000~3500		2.3	98	295	482	5.2	78	295	768 :	7.9	768	2762	7480	1.6	195	59:	1772
3500-4000		2.3	197	295	491	2.~	우습	96	964	9.2	98	1278	5551	4	157	251	1290
4000-4500	:	1.0	197	443	787 .	5.0	98	394	787	3.6	99	738	4380	2.9	394	591	1319
4500-5000	:	5.6	197	295	531 -	11.9	58	394	746 :	10.5	98	1772	12139	7.2	197	49_	1250
5000-6000		9.6	197	295	689 .	14.1	96	295	827	24.3	98	1673	16169	. 10.0	295	669	1280
6000-7000	1	11.6	98	295	492	15.7	98	295	689	22.5	98	1427	28272	10.9	96	794	264
7000~ 800 0	1	12.9	98	295	492	16.1	98	197	492	27.2	98	2067	27790	11.2	9 €	491	າ : ົ ສ
8000-90 0 0	:	13.1	98	295	394 :	16.0	98	197	492	26.5	98	1772	26805	:2.2	197	49_	1250
9000-10000	:	8.9	197	295	394 .	13.6	69	295	433 .	21.8	138	4330	25801	10.7	295	441	964
10000-11000		8.5	98	295	404	12.2	98	197	364 :	23.6	96	3150	24925	8.9	,	472	.5
11000-12000		4.7	98	197	394	7.8	98	197	394	10.0	78	4314	23685	8.2	197	59:	1476
12000-13000		3.3	98	197	295	6.0	96	96	394	12.5	98	1673	22770	7.6	98	492	4 _
13000-14000	:	3.6	98	197	225	6.7	98	197	295	12.7	98	5085	21884	7.1	78	447	::21
14000-15000	1	1.6	98	197	197	3.3	96	197	295 :	9.6	98	4462	20801	5.1	96	394	1087
15000-16000	-	υ . 4	98	148	197	2.2	78	197	285	6.9	344	3839	19817	4	98	329	965
16000-17000		1.1	131	164	230	2.9	98	164	213	6.5	344	4987	18819	5.3	246	492	1.27
17000-18000	1	0.7	164	164	164	1.1	164	164	164	6.0	656	13616	17717	4.5	164	128	6∵4
18000-19000		0.4	164	164	164	ı.ē	164	164	328	4.5	558	15912	16897	5.1	: 64	492	556
19000-20000	;	0.2	328	328	326	り、こ	328	326	326	3.4	919	15420	15748	2.5	328	495	1115

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BASE :	DUCTS BASE : THE PERCENTILES FT MSL : %FRQ 10% 50% 90%					SALA THK PE	IS ERCENTI	.ES		NORM THE F	AL ERCENT I	LES .		÷∪E ∀H⊩ £ë	RCENT :	LES
FT MSL	%FR0	10%	50%	90%	%FRC	いった	5	9.77	%FRC	10%	50%	90%	%FFC	1 1 2	50%	9 1
SFC-500 :	13.8	78	256	354	34.1	98	256	354	97.1	453	4980	; 4567	2	157	754	427
500-1000 .	0.7	98	394	394	1 - 4	98	98	561	8.2	1427	5515	54394		787	915	1570
1000 -15 00 :	ψ. 4	98	98	591	1.4	98	443	886	٠. ۶	96	6595	34.38		95	744	1.01
1500-2000 .	2.2	157	295	689	5.0	98	492	925 .	2.9	689	7677	15739	্. হ	78	177	29€
2000-2500	2.6	187	295	689	7.6	98	261	1082	2.9	177	3248	12136	1.3	Ťä	394	2754
2500-3000 :	2.6	197	295	610	6.3	98	394	886	9.2	512	2362	9409	:	98	295	767
3000-3500 :	1.7	128	344	659	3.2	98	295	9 07 :	8.1	98	1772	7351	5.3	2.5	:94	1719
3 5 00-4000 :	2.3	98	2 95	423	4.5	98	197	787 :	5.3	98	1969	4189	1.0	295	787	:120
4000-4500 :	2.2	98	295	728	2.2	98	197	541 :	5.6	197	1772	6986	5.2	158	492	1.004
4500-5000	5.6	197	295	591	9.9	98	295	758	9.8	98	2067	30250	6.6	98	295	726
5000-6000 :	7.3	98	295	561	13.5	98	594	787	20.6	98	1870	2956)	8.6	99	294	1346
6 000-7000 .	9.4	98	295	492	14.5	98	295	591	20.0	98	2018	28646	8.7	96	492	1.61
7000- 8 000 :	13.4	197	295	492	15.4	98	197	591	23.7	217	2461	27790	10.1	3 8	291	12:1
8 000- 9 000 :	11.4	98	295	492	15.4	98	197	492	26.5	98	2756	26805	:0.5	÷÷	491	128.
9000-10000	8.5	98	197	394	10.5	98	197	492	16.9	98	3199	25909	9,5	98	491	984
10000-11000 :	9.7	78	295	394	12.7	98	197	394 :	24.6	197	4823	24935	9.1	98	492	1080
11000-12000 .	5.5	98	197	295 :	8.4	98	197	394	14.1	98	4429	23852	7.1	9€	492	1961
12000-13000	3.7	98	197	325 :	6.5	98	197	394 :	14.0	98	3150	22809	7.2	79	194	1729
13000-14000 .	2.3	98	98	295	5.5	98	197	384	ବ . କ	276	5183	21884	5.9	9 6	394	, O. A
14000-15000	2.3	98	98	295	3.6	98	197	312 :	9.8	295	7251	20801	2.6	38	344	964
15000-16000	0.9	98	197	197 :	2.2	98	98	308 :	6.2	98	14485	19915	4.3	98	794	899
16000-17000	0.9	164	164	328	1.6	98	164	321	5.2	427	4101	18771	2.2	144	476	1148
17000-18000	0.7	164	164	328	1.0	164	164	328 .	3.5	492	17143	17717	4.	512	6.5	984
18000-19000	0.4	164	164	164	0.7	164	104	164	6.8	525	16076	16777	4.2	: 64	526	656
19000-20000	0.1	164	164	164	0.7	164	164	164	2.3	1345	15092	15518		164	497	rar

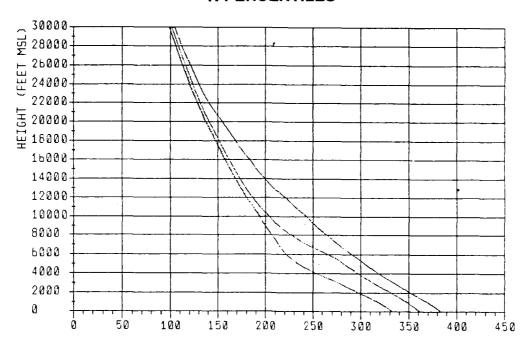
1200Z

FIGURE B-12-3-D

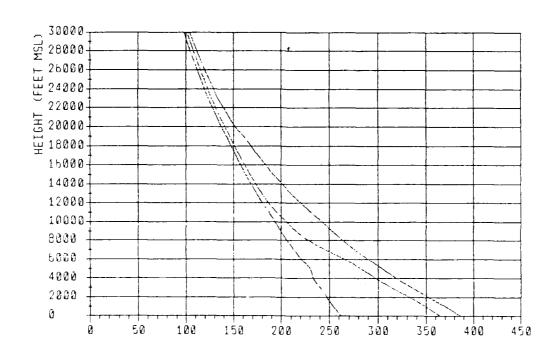
B-197

PIARCO DRY SEASON

N PERCENTILES



N (N-Units) 0000Z

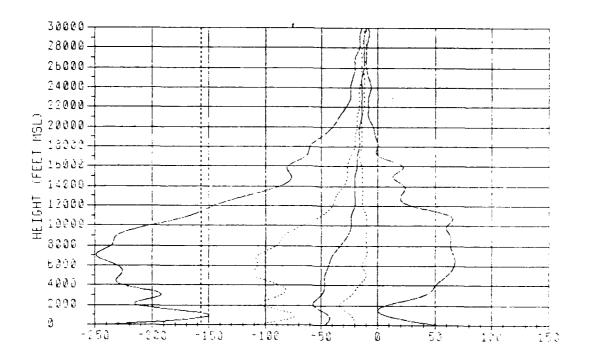


N (N-Units) 1200Z

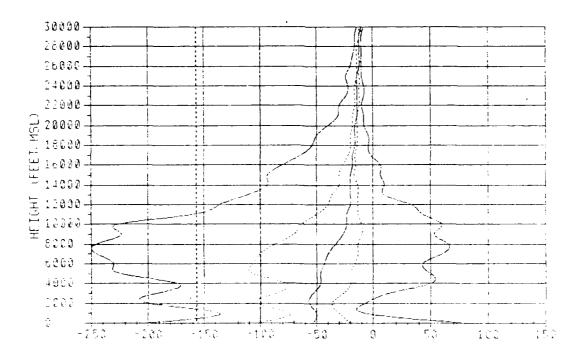
FIGURE B-12-4-A B-198

PIARCO DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-12-4-B B-199

PIARCO	DRY SEASON
· · · · · · · · ·	

FT MEL	1%	F PERC	ENTILES 50%	90%	88%	1%	10%	DEPERCEN	TILES	00%	11	PERCENT DUCT :	OCCURR BRLR :	ENCE :
SFC-500	:330.04	355.69	360.80	378.50	389.38	:-270.81	-138.69	-54.16	-0.33	143.95	- • •	13.3	38.1	18.4
500-1000	:332.00	347.38	380.00	371.74		-93.75	-64.37	-30.50	~18.75	2.08	11	0.0	0.9	1.5
1000-1500	1326.01	341.19	384.25	364.88	374.28	1-125.00	-88.68	-41.88	~20.83	5.81	- 11	0.6	3.7	2.4
1800-2000	: \$14.80	333.67	347.88	397.68		1-169.12	-93.78	-50.00	~25.00	0.00	11	4.2	12.1	2.0
2000-2500	1303.85	324.06	330.38	348.50		1-209.98		-80.41	~33.33	-2.08	11	8.1	17.7	1.8
2500-1000	1290.72	311.37	\$27.25	336.56		1-197.84		-80.41	~33.33	22.91	11	4.6	18.4	3.6
3000-3500	278.09	299.88	317.22	320.50		:-184.94	-93.75	-54.16	-27.08	19.58	1 1	3.4	9.3	
3500-4000	266.11	290.89	108.88	320.89		1-233.33	-89.58	-50.00	-20.52	45.29	11	5.0	8.4	
4000-4800	:298.02	281.38	300.88	313.06		1-245.29	-89.58	-80.00	-14.58	47.37	- ; ;	6.0	9.5	8.9
4500-5000	248.12	269.54	293.38	308.30		-263.31		-47.91	~12.50	84.24	: 1	11.6	17.9	12.5
	- *					• • • • • • • • • • • • • • • • • • • •			- 12.30		-++			
5000-6000	:231.40	291.90	280.25	295.88		:-268.69		-45.83	-14.56	50.00	: 1	16.1 /	28.4	13.9
6000-7000	221.40	234.70	259.75	201.56		1-299.81	-108.84	-43.75	-13.28	86.61	::	17.1	22.9 :	13.4
7000-8000	1213.50	219.10	241.90	268.19		1-268.65	-98.61	-36.71	-8.84	80.02	::	16.3 :	18.6	14.4
8000-8000	: 205 .00	209.30	227.00	255.00		:~268.82	-88.71	-30.07	-10.03	88.86	1 1	14.4 (18.2 /	18.7
9000-10000	1198.60	201.00	213.90	241.40	252.20	:-210.02	-69.92	-28.89	-6.84	59.67	1.1	9.0	11.9	14.9
10000-11000	:192.00	193.90	203.70	228.70	241 70	1-196.35	-66.66	-23.30	-9.90	63.41	1:	6.1	12.8	18.3
11000-12000		186.80	194.30	216.48		1-143.35	-50.00	-23.30	-10.03	56.61	1.1	4.6	7.5	10.9
12000-13000		180.40	186.10	205.00		:-129.95	-43.36	-20.05	-10.03	39.97	11	3.4	4.7	
18000-14000		173.90	178.90	194.78		-123.43	-38.71	-20.05	-13.28	28.89	: :	2.9	5.8	9.5
14000-15000		168.10	172.20	187.00		-89.97	-30.07	-19.92	-13.20	36.23	- ; ;	1.0	2.8	8.7
	- •					•		- 1						
15000-16000	:161.20	182.80	166.45	179.70	189.40	: -93.36	-30.07	-19.92	-13.20	29.95	1.1	1.0 ;	4.0	9.0 :
16000-17000		157.20	160.90	172.52	183.30	: -82.52	-30.00	-17.96	-14.08	17.78	1:	0.6 :	2.8	5.6 1
17000-16000	1150.80	151.90	155.10	184.80	174.95	: -88.01	-28.01	-17.96	-13.96	13.07	1:	0.4	1.3	4.6 :
18000-19000	:145.10	146.30	149.70	157.10	187.57	: -60.00	-23.98	-18.01	-13.98	10.00	1.1	0.3:	1.0	5.3
19000-20000	:140.20	141.40	144.20	149.80	159.88	: -52.03	-21.95	-18.01	-13.98	2.03	::	0.0 :	0.4	2.0
20000-21000	1138 70	136.80	139.40	144.10	153.00	-49 77	-18.04	-16.01	-13.98	-6.02	- • •	0.0:	0.3	1.4
21000-22000		132.40	134.90	130.00		-36.01	-17.99	-14.06	-12.03	-2.03	- 11	0.0 :	0.1	1.0
22000-23000		128.10	130.40	134.00		-32.03	-17.96	-15.90	-12.03	-3.98	11	0.0 :	0.1	
23000-24000		123.40	125.90	129.20		1 -27.99	-10.01	-13.99	-11.95		11	0.0 1	0.0	1.1
24000-25000		119.30	121.80	124.30		-28.04	-16.01	-13.00	-11.95	-8.94 -3.71	11	0.0	0.0 :	
24000-23000		119.30	121.00	124.30	128.30	-20.04	-10.01	-13.00	-11.95	-3.71	- 4 4		0.0:	1.8
25000-26000	1114.10	115.40	117.50	120.00	123.50	-21.95	-14.06	-12.03	-11.95	-6.02	1:	0.0	0.0	0.6
26000-27000	1110.37	111.70	113.70	118.00	119.02	: -21.95	-14.06	-12.03	-11.95	-7.97	: :	0.0	0.0 :	0.8 :
27000-28000	:106.40	107.70	109.70	111.90	114.50	-10.04	-13.00	-12.03	-10.00	-6.05	1:	0.0	0.0 :	0.3
28000-29000	:103.00	104.10	105.90	107.70	109.90	-16.01	-12.03	-11.95	-10.00	-7.97	1.1	0.0 :	0.0	0.9 1
29000-30000		100.80	102.50	104.20	108.00	-15.98	-12.03	-11.95	-10.00	-7.97	11	0.C:	0.0	0.3
	- •					•					- • •			
30000-31000		97.60	99.20	100.80	102.40		-12.03	-10.00	-10.00	~7.87	1.1	0.0 :	0.0	
31000-32000	: 93.10	94.40	95.90	97.50		1 -15.94	-12.03	-10.00	-10.00	-7.97	1.1	0.0 :	0.0:	
32000-33000		90.90	92.50	94.10		: -13.90	-12.03	-10.00	-10.00	-7.87	1.1	0.0 :	0.0 1	0.0 (
33000-34000	: 86.70	87.90	89.20	90.60	91.40	1 -20.00	-11.95	-10.00	-8.05	-7.97	1.1	0.0	0.0 :	
34000-35000	: 84.85	85.70	86.60	87.60	88.20	: -20.00	-11.95	-10.00	-7.97	-7.97	1 1	0.0 :	0.0 :	0.0:

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HOT PT MSL	1%	N PERC	ENTILES #OF	90%	99%	1 %		DE PERCEN	TILES SON	89X	: 1	PERCENT DUCT :	OCCURRE	NCE :
SFC-800 900-1000 1000-1800 1900-2000 2000-2800 2500-3000 3000-3900	:344,25 :334,24 :329,21 :313,82 :300,31 :288,93 :278,47	360.08 350.38 343.25 335.88 325.75 312.75 370.56	372,25 363.06 356.00 348.58 339.69 326.68 318.68	392.88 375.19 367.00 359.75 349.56 339.69 330.00	389.31 376.27 388.08 357.25 347.56 337.75	:-108.2 :-110.4 :-149.3 :-200.3 :-195.8 :-200.0	1 -70.83 1 -83,33 9 -108.28 3 -100.00 0 -89.88	-56.28 -50.00 -80.00 -52.06 -60.41 -58.33 -58.25	10.42 -27.00 -29.10 -33.33 -39.50 -39.50 -33.33	138.21 4.17 -4.17 -6.25 -14.56 -6.25 6.25	11	13.0 : 0.4 : 0.5 : 2.0 : 4.4 : 4.1 : 3.8 :	29.9 : 1.7 : 2.2 : 0.7 : 14.0 : 12.6 : 9.5 :	21.4 : 1.8 : 1.3 : 1.1 : 0.7 : 1.2 : 2.8 :
3500-4000 4000-4500 4500-5000	:268.60 :258.42 :248.76	291,25 201,57 272,25	309.56 300.88 292.75	321.78 314.19 307.00	322.01 314.90	1-218.8	2 -09.50 0 -97.91	-54.18 -50.00 -50.00	-27.08 -22.91 -18.75	16.66 27.08 58.75	11	5.3 : 4.4 : 6.2 :	8.8 : 10.4 : 18.0 :	3.1 : 5.3 : 9.5 :
5000-6000 6000-7000 7000-8000 8000-9000 9000-10000	:231.00 :221.51 :213.69 :205.60 :198.40	253.00 234.88 221.20 210.00 201.50	279.75 282.08 244.20 228.90 216.20	298.25 201.00 268.38 255.50 242.80	288.19 276.19 283.73	1-266,6 (-270,7 1-273,3 1-270,0 1-200,0	2 -89.97 0 -79.95	-45.63 -41.66 -36.71 -33.33 -26.69	-17.00 -13.41 -10.03 -10.03 -6.64	53.08 47.91 56.26 63.41 56.44	11	17.0 : 14.3 : 13.0 : 12.7 : 7.0 :	23.0 : 18.5 : 18.1 : 14.7 : 9.7 :	11.3 11.7 13.6 14.4 13.2
10000-11000 11000-12000 12000-13000 13000-14000	:188.10 :179.00 :172.80	194.20 197.00 180.60 174.10 168.20	206.20 195.90 187.20 179.40 172.60	231.40 218.80 208.80 198.80 189.60	230.30 219.40 209.60	:-206.8 :-156.6 :-130.0 :-116.8 :-108.6	4 -53.28 7 -40.10 6 -36.71	-23.30 -23.30 -20.05 -20.05 -20.05	-8.77 -10.03 -10.03 -10.03 -13.28	63.28 46.61 36.71 16.66 20.05	11	8.9 : 5.6 : 3.6 : 3.2 : 2.8 :	11.6 : 9.3 : 4.9 : 5.3 : 4.6 :	18.6 : 12.6 : 7.8 : 7.3 : 6.6 :
15000-19000 16000-17000 17000-18000 18000-19000	:185.90 :150.80 :145.10	162.60 187.20 151.90 146.20 141.30	166.50 180.90 165.00 149.50 144.00	180.00 172.80 185.00 187.89 150.40	184.10	-93.3 -79.9 -72.0 -57.9 -56.0	8 -27.98 3 -28.01 8 -22.03	-19.92 -17.96 -17.96 -16.01 -16.01	-13.41 -13.98 -13.98 -13.98 -13.98	16.66 10.01 2.03 3.86 -2.03	:::	1.0: 1.1: 0.5: 0.4: 0.1:	3.6 : 2.1 : 1.7 : 1.1 : 0.6 :	8.0 4.4 2.8 3.6 2.4
2000-21000 21000-22000 22000-23000 23000-24000	:131.10 :126.60 :121.90	130,70 132,30 120,00 123,30 119,20	139.30 134.70 130.30 125.70 121.30	144.10 138.60 133.50 128.60 123.90	152,00 145.99 139.60 133.40 128.10	-48.0 -40.0 -32.0 -29.0 -23.9	0 -18.04 3 -17.96 1 -18.01	-18.01 -14.06 -13.98 -13.99 -13.98	-13.98 -12.03 -12.03 -11.95 -11.95	-2.36 -3.88 -8.02 -8.98 -4.08	11	0.0 : 0.0 : 0.0 : 0.0 :	0.2 (0.3 1 0.1 : 0.2 : 0.0 :	2.0 ! 1.1 : 0.9 : 0.6 : 1.4 :
25000 - 26000 26000 - 27000 27000 - 26000 26000 - 26000 28000 - 30000	:110.40 :106.30 :102.60	115.30 111.60 107.50 104.00 100.70	117.30 113.50 109.50 105.70 102.30	118.70 118.70 111.60 107.50 104.00	118.50 114.10 108.50	-23.8 -20.0 -18.0 -18.5 -14.0	0 -14.06 4 -13.86 0 -12.03	-12.03 -12.03 -12.03 -11.86 -11.85	-11.95 -11.95 -10.00 -10.00 -10.00	-7.97 -7.97 -7.97 -7.97 -8.05	11	0.0 : 0.0 : 0.0 : 0.0 :	0.0 :	0.2 : 0.2 : 0.4 : 0.2 : 0.1 :
3000-31000 31000-32000 32000-33000 38000-34000 34000-37000	: 93.10 : 89.55 86.60	\$7.50 94.30 90.60 87.70 85.60	99.00 95.80 92.40 89.10 86.60	100.80 97.40 94.00 90.40 87.50	95.00 91.20	-14.0 -19.9 -12.0 -16.0 -22.0	4 -12.03 3 -12.03 1 -10.00	10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.05 -7.97	-7.87 -7.97 -7.97 -7.97 -7.97	11	0.0 1	0.0 :	0.0 : 0.1 : 0.0 : 0.0 :

1200Z FIGURE B-12-4-C B-200 PIARCO DRY SEASON

THICKNESS STATISTICS

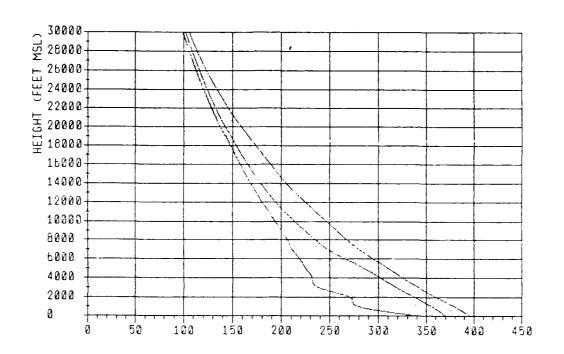
BASE	DUCTS BASE : THE PERCENTILES :						SRLA THI PE	RS IRCENTIL	FS .		NORM THE E	AL ERCENT I	. = =		526 751 56	FCENT (£ C
FT MBL		%FRQ	10%	50%	90%	%FR0	10%	50%	90%	7.FRU	10%	50%	90%	%F80	10%	±05.	4.1%
SFC-500	:	12.3	128	256	354	36.1	98	256	754	98.9	1476	4389	9193	15.4	90	256	354
500-1000		ů,ů				0.3	197	344	492	1.5	98	3248	12106	. (.5	ΨĖ	98	836
1000-1500	;	Ú.6	98	197	591	3.1	98	640	1378 .	1.7	78	689	18222	1.5	구남	195	550
1500-2000	;	3.9	118	295	669	10.2	98	591	:083	4.6	우윤	5201	9556	. ೮.೮	୍ରକ୍ଷ	394	497
2000-2500	1	2.5	108	394	591	9.4	98	344	1181 :	₽.4	98	2508	5988	. 1.7	98	591	10.72
2500-3000	:	2.8	128	295	394	6.6	48	344	984	11.1	98	2805	5380	. 2.3	98	29:	880
3000-3500		2.8	128	394	659	3.9	98	295	886 :	9.2	98	2362	5708	3.4	98	7.94	1575
3500-4000	:	3.3	197	394	719	6.1	96	246	ዋኒሟ .	5.9	98	2215	9764	1.6	177	44:	1170
4000-4500	:	3.8	197	194	689	5.4	98	344	1033 .	e. 5	98	1476	7500	. 5.2	98	591	1408
4500-5000	:	9.0	98	394	591	14.5	98	295	719	15.3	98	2461	30250	6.4	197	794	:087
5000-6000	-;	9.9	197	394	591	17.7	98	394	689	26.5	98	2067	29463	6.8	96	443	:073
6000-7000	:	14.4	157	295	492	17.4	98	197	591 :	26.2	98	2904	28705	8.6	98	492	: 280
7000- 8 000	:	12.1	98	295	492	16.4	98	197	591 :	25.2	78	3150	27966	10.7	98	291	1280
8000- 9 000	:	11.8	98	295	492	15.3	78	197	492 :	27.6	98	2756	26805	9.2	98	394	1200
9000-10000		7.2	98	197	492	10.9	98	197	394	16.2	98	2165	25723	9.7	98	492	1024
10000-11000	;	7.3	98	197	394	11.9	96	197	492 :	23.4	-	4724	24935	. 9.7	96	492	116:
11000-12000	:	4.0	98	246	394	6.7	98	197	394	12.1	98	5151	23754	6.3	98	591	1181
12000-13000	:	3.0	78	197	394	3.9	98	197	344	9.7	98	4150	27917	5.9	98	294	656
13000-14000	:	2.8	98	197	197	5.6	98	197	404 :	10.5	98	5020	21687	5.9	98	294	:083
14000-15000	1	1.8	98	197	295	2.7	98	98	295	7.7	98	1476	20604	5.8	98	492	1.067
15000-16000		0.9	98	98	197	3.8	98	197	295	9.5	98	13107	19767	+ ; 5.7	96	394	965
16000-17000	1	0.6	98	164	164	2.4	171	164	328 :	6.3	1070	18537	18911	E. 4	164	459	1146
17000-18000	;	0.4	164	164	328	1.1	164	164	328	5.1	164	17061	17861	2.7	180	495	820
18000-19000	:	0.3	164	164	164	0.9	164	164	164	5.7	951	16076	16733	3.7	164	492	820
19000-20000		0.0		-		0.4	164	164	328	2.3	2576	14928	15453	1.6	164	492	9.72

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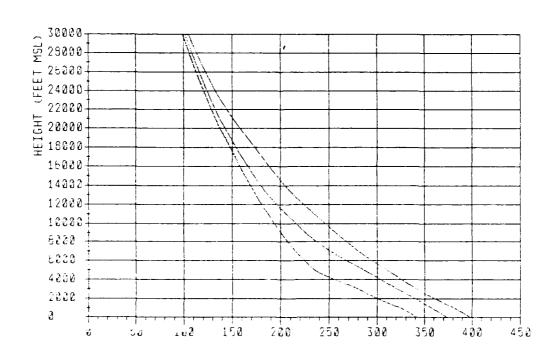
	DUCTS BASE : THE PERCENTILES						SALF	es.			NORM	AL			SUE		
BASE	:		THE PE	RCENTIL	ES :		THE PE	RCENTI	ES .		THE P	ERCENT	LES :		THE PE	RCENTIL	.ES
FT MSL		%FRQ	10%	50%	90% 1	%FR0	10%	50%	90%	%FRC	10%	50%	90%	%FRQ	1.0%	5.4	4.5%
SFC-500		13.0	98	256	354	29.9	78	256	354	98.1	1476	4882	13583	21.4	157	754	224
500~1000	:	0.0				0.3	98	98	98 :	4.3	98	3937	34364 .	0.6	99	: 74	484
1000-1500	:	Ů. 5	197	492	492 :	1.8	98	492	1201 :	1.5	98	6594	33952	0.€	157	45_	Bés
1500-2000		1.6	98	295	433 .	7.2	98	640	1083	3.1	689	3347	10236	0.3	295	394	591
2000-2500	;	3.2	197	295	768 :	8.2	98	492	994 .	5.1	1181	3543	7401	0.4	46	204	605
2500-3000	:	2.4	98	394	591 :	5.4	98	492	886	9.5	886	2659	6201	1.0	78	492	727
3000-3500		2.7	197	394	689 .	5.2	98	295	886	6.8	157	1673	6376	2.0	99	447	:505
3500-4000	:	3.5	139	295	591 :	5.3	98	295	1043	5.2	207	1378	6634 :	1.9	48	591	118:
4000-4500	7	2.7	197	394	591 :	6.9	98	394	807 :	7.5	98	1021	7480	5.4	96	591	866
4500~5000	:_	6.5	118	394	591 :	11.9	98	295	787	13.0	98	2461	30250	4.5	98	794	1.67
5000~6000		17.2	98	295	591	16.2	98	295	787 :	:3.e	98	2362	29758	8.2	99	492	: 578
A000~7000	;	10.5	197	295	492 :	14.3	98	197	591	27.5	197	3893	28675	7.2	96	591	1181
7000-8000		10.9	197	295	492 :	14.0	98	197	591	2 6	98	2756	27691	8.8	59	492	1270
8000~9000	1	10.7	98	295	492 .	12.2	98	197	492	22.7	98	2510	26707 .	9.8	⊋Ē	49=	1280
9000-10000	1	5.4	98	295	453	8.8	98	197	453	14.7	98	2461	25841	8.2	197	569	1 08 3
0000-11000		7.8	98	295	394	10.7	98	197	394	22.2	197	4429	24935 :	9.9	98	591	1181
1000-12000	:	4.8	98	197	295 ;	8.1	99	197	394	17.7	98	6512	23951	7. 5	96	49	118:
2000-13000	:	3.1	98	197	295 :	4.7	98	98	295	11.5	78	3872	22770	4.5	98	394	787
3000~14000	:	3.0	98	197	295	5.0	98	197	374	9.1	96	20998	21785	5.7	96	ë÷.	110.
4000-15000	:	2.6	98	197	295 :	3.7	98	98	197	8.7	463	11893	20732 .	3.8	98	364	1181
5000-16000	•	0.9	98	90	197	3.4	98	148	295 :	6. 9	98	19128	19617	3.9	98	591	100
6000-17000	1	1.1	131	164	223 .	2.0	98	164	328	5.5	820	18209	18832	2.4	213	492	944
7000-18000	:	0.5	164	164	164	1.5	164	164	328	3.5	656	17725	17799	1.7	104	493	1055
9000-19000	:	0.4	164	164	164	1.1	164	164	164	4.7	1312	10076	16897	5.6	164	728	920
9000-20000	:	0.1	164	164	164	0.6	164	164	328	2.6	1230	15092	15749	1.0	: 04	492	386

1200Z FIGURE B-12-4-D B-201

N PERCENTILES



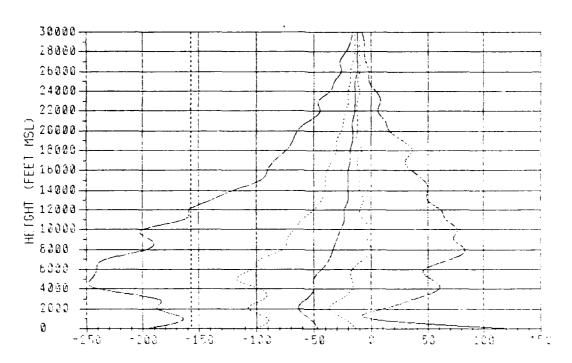
N (N-Units) 0000Z



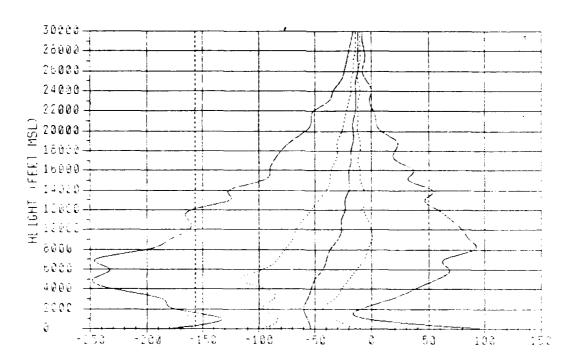
N (N-Units) 1200Z

FIGURE B-12-5-A B-202

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-12-5-B B-203

PIARCO

DRY-WET TRANSITION

FOT MEL	1%	W PERCENTILE 10% 50%		99%	1%	DMD 10%	H PERCENTILES 50% 50%	99%	11	PERCENT DUCT !	OCCURR SRLR I	ENCE :
SFC-800 500-1000 1000-1800 1800-2000 2000-2800 2600-3000 3000-3800 3500-4000 4000-4800	1364.87 1288.47 1317.83 1318.81 1304.88 1273.08 1278.01 1283.32 1283.32	367.19 380.0 361.80 371.0 381.80 368.0 343.80 388.8 332.50 348.2 320.19 336.8 300.06 328.8 299.29 317.0 206.80 308.8 278.28 300.6	8 384.00 0 378.28 8 388.08 8 388.38 348.25 0 338.28 0 328.28 0 320.18	393.20 383.37 372.70 382.88 382.74 342.74 334.18 328.74	1-237.88 1-116.86 1-133.20 1-156.20 1-158.71 1-169.88 1-162.81 1-200.00 1-222.83 1-240.83	-70.83 -79.16 -98.83 -104.16 -97.91 -88.87 -93.78	-08.25 14.58 -00.00 -22.9 -04.18 -29.16 -08.27 -33.33 -22.50 -41.8 -60.41 -37.50 -08.25 -33.33 -04.16 -28.16 -00.00 -22.9 -00.00 -18.76	10.42 0.00 -9.83 -18.88 14.58 32.91 39.82 80.00		11.0 : 0.3 : 0.3 : 0.3 : 2.2 : 3.6 : 3.6 : 3.7 : 10.6 :	30.0 ! 2.6 ! 7.3 ! 11.6 ! 14.3 ! 12.1 ! 6.3 ! 9.2 ! 10.0 ! 17.3 !	23.5 1.6 1.6 1.2 0.8 2.6 4.0 5.2 7.0 8.7
5000-8000 6000-7000 7000-8000 8000-8000 8000-10000	:224.40 :217.60 :211.10 :205.41 :198.60	256.56 267.0 238.60 268.5 225.80 252.1 215.40 258.3 205.30 226.7	286.06 8 272.19 0 288.00	294.38 280.88 288.38	:-266.44 :-247.91 :-213.41 :-186.67 :-170.08		-50.00 -18.78 -43.78 -18.78 -39.58 -9.90 -33.33 -3.26 -33.33 0.00	43.78 60.02 83.33	11	17.8 11.8 7.7 6.8 8.3	26.6 21.0 16.6 12.0 11.1	12.1 : 12.8 : 14.6 : 19.3 : 18.6 :
1000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1185.60 1179.40 1172.90	187.20 217.4 188.41 207.8 182.60 196.0 178.90 188.6 188.60 180.6	0 228.40 0 218.30 0 208.00	233.20 222.60 212.81	:-106.71 :-108.64 :-146.58 :-143.62 :-123.30	-63.41 -56.64 -50.00 -46.81 -46.61	-28.69	76.69 66.86 80.02	11	8.3 ! 8.0 ! 4.3 ! 4.7 ! 3.2 !	10.1 10.7 8.6 9.8	23.6 : 20.0 ! 18.6 ! 18.3 : 15.2 :
15000-18000 18000-17000 17000-18000 18000-18000 19000-20000	188.40 181.20 1148.60	163.80 173.1 168.40 166.5 152.90 160.0 147.20 154.1 142.30 147.8	0 102.20 8 174.25 0 166.50	187.80 178.20 171.40	!-103.36 !-94.10 !-97.88 !-76.13 !-67.86	-43.23 -36.71 -33.88 -32.03 -32.03	-20.05 -8.84 -20.00 -8.02 -18.04 -6.02 -17.86 -6.02 -18.01 -10.00	48.07 35.83 40.00	11	2.2 ! 0.8 ! 1.2 ! 0.2 ! 0.2 !	4.5 3.6 3.5 1.8 0.7	15.5 15.5 13.9 16.2 9.4
2000-21000 21000-22000 24000-23000 23000-24000 24000-28000	1131.80	137.80 142.3 133.10 137.2 128.80 132.6 124.10 127.7 120.00 123.2	0 146.40 0 140.70 0 134.70	150.30 144.10 138.20	: -60.00 : -80.00 : -80.41 : -42.69 : -36.73	-28.01 -23.98 -23.98 -20.00 -20.00	-18.01 -10.00 -18.01 -10.00 -14.08 -10.00 -13.98 -10.00 -13.98 -10.00	22.34 18.01 4.08	11	0.2 ! 0.2 ! 0.2 ! 0.0 !	0.8 i 0.0 i 0.0 i 0.2 i 0.0 i	10.2 : 8.5 : 8.7 : 5.2 : 6.7 :
25000-26000 26000-27000 27000-26000 28000-29000 28000-30000	111.24	118.10 118.9 112.30 114.9 108.20 110.8 104.30 108.7 101.30 103.2	0 119.00 0 114.20 0 109.80	121.45	: -32.03 : -26.01 : -23.98 : -20.00 : -18.01	-18.04 -17.86 -18.01 -14.06 -13.88	-13.98 -10.00 -12.03 -10.00 -12.03 -10.00 -12.03 -10.00 -11.96 -10.00	-2.03 -3.98 -3.98	11	0.2 0.0 0.0 0.0 0.0	0.0:	3.0 : 1.9 : 2.0 : 0.7 :
3000 /- 31000 31000 - 32000 32000 - 33000 33000 - 34000 34000 - 35000	94.10	98.00 99.8 94.80 96.4 91.30 92.9 88.20 89.5 86.00 88.9	98.20 0 94.60 0 90.90	99.30 98.70 91.70	: -18.01 : -19.86 : -13.98 : -28.01 : -26.01	-12.03 -12.03 -12.03 -12.03 -12.03	-11.85 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.00 -10.00 -7.91	-7.97 -7.97 -7.97	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	0.0 : 0.0 : 0.0 : 0.0 :	0.0 1	0.3 : 0.6 : 0.2 : 0.0 :

0000Z

HOT PT MEL	1 %	N PERC	ENTILES 50%	90%	99X	: 1×	DNDE	PERCEN	TILES		: PERCENT	OCCURR SRLR :	
500-1000 1000-1500 1500-2000 2000-2500 2500-3000 3000-3800 3500-4000 4000-4800	+	370.75 361.38 353.75 345.69 335.00 322.25 311.00 302.00 292.06	383.58 373.86 365.89 367.19 347.69 337.06 327.38 316.88 310.69 302.75	392.75 385.19 376.06 386.50 306.56 346.50 326.56 326.66 328.70 320.68	395.18 384.50 374.08 363.19 353.38 343.69 335.06 327.37	1-229.18 1-114.58 1-12.51 1-150.00 1-159.59 1-159.33 1-149.93 1-172.79 1-191.58 1-230.91	-77.08 -79.18 -87.50 -100.00 -89.58 -81.20 -77.08 -79.16	-58.25 -58.25 -60.41 -82.50 -60.41 -58.25 -54.18 -54.18	10.42 -29.16 -33.33 -39.68 -45.63 -43.76 -33.33 -27.08 -20.00	197.50 2.08 0.00 -12.50 -18.92 16.66 22.91 16.66 27.08	8.4 : 1: 0.1 : 1: 0.3 : 1: 1: 2.1 : 1: 2.6 : 1: 1: 3.4 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 3.9 : 1: 1: 1: 3.9 : 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	28.0 [3.7 i 3.8 i 10.6 : 8.8 i 7.0 : 5.6 i 5.7 i	21.7 : 1.8 : 1.9 : 1.9 : 3.2 : 3.1 : 2.9 : 4.0 : 6.5 :
5000-6000 6000-7000 7000-8000 6000-8000 5000-10000	:231.10 :223.60 :214.70 :208.20 :198.60	261.69 242.40 230.30 219.70 208.70	289.19 270.69 254.40 240.10 228.70	302.56 286.60 273.19 259.86 247.60	309.69 293.67 280.78 267.78 265.19	:-264.56 :-220.05 :-226.67 :-178.96 :-156.28	-116.88 -87.81 -83.33 -70.08 -66.86	-50.00 -45.63 -39.58 -35.41 -33.33	-23.30 -10.66 -12.50 -3.39 0.00	76.25 65.06 64.36 98.74 73.30	17.7 9.1 1 9.5 1 9.7 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1 9.5 1	25.4 20.7 13.2 13.6 8.2	10.0 12.2 14.2 18.9 18.5
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	;185.80 ;179.80 ;173.20 ;167.40	199.00 191.10 182,90 176.10 169.90	218.60 209.50 198.40 189.60 181.40	238.80 228.10 215.60 208.40 197.60	233.10 222.10 212.01 202.80	!-156.64 !-180.00 !-143.23 !-126.95 !-119.76	-89.77 -88.84 -48.74 -43.36	-29.85 -29.95 -26.69 -23.30 -23.30	-3.26 -6.64 -6.64 -6.64	63.70 66.66 53.26 66.66	4.8 1 0.3 1 4.0 1 4.3 1 2.8	11.7 ! 9.8 : 10.3 : 7.0 : 5.4 :	25.0 : 16.7 : 17.3 : 17.2 : 15.6 :
15000-17000 17000-18000 18000-18000 18000-20000	:158.60 :151.40 :145.70 :141.00	158.60 153.10 147.30 142.40	174.00 188.70 159.80 153.90 147.80	181.80 173.60 165.70 158.10	186.70 178.53 170.80 162.54	-98.33 -80.69 -80.00 -83.98	-38.04 -33.98 -33.98 -30.00	-20.06 -20.00 -18.04 -17.98 -18.01	-9.90 -10.00 -10.00 -7.97 -10.00	37.96 31.85 32.03 18.00	2.2 : 1.6 : 1.6 : 1.7 : 1.6 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 : 1.7 :	3.0 : 2.1 : 2.1 : 0.3 :	12.6 11.7 12.5 15.9 8.9
21000-22000 22000-23000 23000-23000 24000-25000 25000-28000	:131.60 :127.80 :122.60 :118.60	137.80 133.30 129.00 124.20 120.00	137.30 132.60 127.70 123.00	131.80 148.20 139.50 133.30 127.80	149.20 143.10 138.90 130.70	1 -49.47 1 -47.55 1 -37.97 1 -33.98	-24.08 -23.88 -20.00	-18.01 -18.01 -14.06 -13.98 -13.98	-10.00 -10.00 -11.95 -10.00 -10.00	11.95 4.05 3.96 0.00	0.0 :	0.0:	7.3 ; 8.6 ; 4.3 ; 3.9 ; 3.0 ;
26000-27000 27000-28000 28000-28000 28000-38000	:111.20 :107.10 :103.80 :100.30	112.30 108.20 104.60 101.20	114.80 114.80 110.60 108.60 103.10	118.30 113.60 109.00 105.10	120.70 115.80 110.80 108.50	: -24.08 : -21.95 : -20.00 : -16.01	-10.01 -10.01 -14.00 -13.96	-13.98 -13.98 -12.03 -12.03 -11.95	-10.00 -10.00 -10.00 -10.00	-0.94 -6.02 -6.02 -7.97	0.01	0.0:	1.2 : 0.5 : 0.6 : 0.8 :
31000-32000	93.80 90.30 87.30	94.70 91.20 98.10 65.90	96.30 92.70 89.40 86.80	98.00 94.40 90.80 87.80	98.90 95.30 91.50	-29.04 -12.03 -22.03 -22.03	-12.03 -12.03 -11.99	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -7.97	-7.97 -7.97 -7.97	0.0 :	0.0 :	0.3 1

1200Z FIGURE B-12-5-C B-204

DRY-WET TRANSITION

PIARCO

THICKNESS STATISTICS

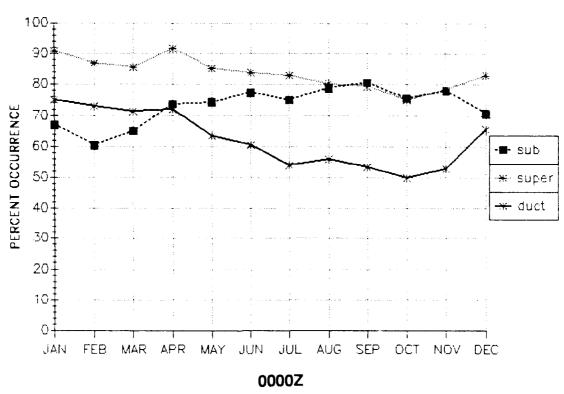
BASE	DUCTS BASE : THK PERCENTILES FT MSL : %FRQ 10% 50% 90%						SRLF THK PE 10%	RCENTI				ERCENTI				RCENTI.	
F! MBL		2FHQ	10%	50%	90% .	%FRO	10%	50%	90% :	%FRQ	10%	50%	90%	%FRQ	10%	÷ .%	9-05
8FC-500		11.5	157	256	354	30.0	59	256	354	98.2	1280	4921	23426	23.5	215	J54	154
500-1000	:	0.0			:	1.2	98	787	1181	1.7	98	787	30244	0.2	. 6 7	197	197
1000-1500	;	0.3	98	443	787	5.7	98	492	1299	4.0	98	2756	33814	1.3	.⇒6	443	1470
1500-2000	;	2.0	129	295	492 :	7.8	98	492	1043	4.5	98	3445	18550	5.2	98	96	96
2000-2500	:	2.7	98	344	846	7.3	98	394	925 :	7.5	98	2559	9094	0.5	295	194	194
2500-3000	;	2.0	295	344	591 :	5.7	98	591	1378 .	8.7	98	2264	6633	2.2	433	591	1047
3000-3500	1	2.2	128	295	689 :	3.5	98	394	1065 .	5. 8	98	1181	6791	2.2	236	492	.595
3500-4000	:	3.2	197	295	591 .	5.3	96	295	846	7.0	98	1672	11871	7.2	4.8	295	1047
4000-4500	:	5.5	98	394	489 :	6. 0	98	295	787 :	7.3	98	797	7297	4.5	195	291	686
4500-5000	1	8.0	98	295	591	13.1	98	295	679	14.0	197	2658	30250	4.3	98	394	1161
5000-6000		12.6	197	394	591 :	19.1	98	295	689 :	25.5	98	2067	19778	9.5	 46	 	1051
6000-7000	;	7.7	98	295	591	16.6	98	295	787 :	23.1	98	2215	20446	9.0	98	194	984
7000-8000	:	6.3	98	295	591	12.0	98	295	512	21.6	98	1476	27197	10.1	256	591	1555
8000-9000		6.0	98	295	492 :	9.3	98	295	591	18.4	78	1870	20116	13.0	197	591	1368
9000-10000	:	5.2	98	197	295	9.7	98	197	492	19.0	96	1181	25191	11.2	99	194	1081
10000-11000	:	5.8	98	197	394	8.3	98	197	453	24.5	98	2165	24708 .	14.3	96	44_	1101
11000-12000		4.5	98	197	394 :	9.3	98	197	394	19.0	98	1870	23557	13.5	197	5 2 1	1280
12000-13000		3.8	98	197	295 :	7.8	98	197	394	16.8	98	2165	22179 .	12.7	96	492	1:6:
13000-14000	:	4.3	98	197	295	8.3	98	197	354 :	19.5	96	2116	21588	13.0	98	794	1.83
14000-15000	ŧ	3.0	98	197	295	5.2	98	98	295	17.4	98	1969	20703	9.7	197	294	1060
15000-16000	:	2.0	98	197	295	4.3	96	98	1 9 7 .		98	1673	1952:	11.9	 98	491	1983
16000-17000	:	0.7	164	164	164	3.8	151	164	328	15.2	525	4921	18701	10.4	295	477	199
17000-18000	:	1.2	164	164	164 .	3.5	164	164	164	11.9	462	3937	17619	9.6		45	994
18000-19000	;	0.2	164	164	164	1.8	164	104	328	15.0	492	8694	16733	10.9	164	497	357
19000-20000	:	0.2	164	164	164	0.7	164	:64	164 .	6.5	492	5085	5584	7.0	326	49	656

0000Z

			DUCT				SRLF				NORM	AL			SUE		
BASE	ï			RCENTIL			THE PE	RCENT :	.ES .		THE P	ERCENTI	LES .		THE FE	RCENTI	_ES
FT MBL	:	%FRQ	10%	50%	90%	%FF0	10%	50%	90%	%FRQ	10%	50%	9.11.	%F5.	10%	≲ಿಜ	9. %
SFC-500	-;	8.4	98	256	354	26.⊍	98	354	453 :	96.1	1376	5417	261.	21.7	.57	754	
500-1000	;	O. O				1.0	98	98	1280	4.0	98	4724	34463	0.6	3B	ခရ	. g-
1000-1500	;	0.3	197	295	394	2.5	98	738	1476	1.8	96	4134	20000	1.5	73	194	ī
1500-2000		1.9	98	295	591 :	6.2	98	492	1279	4.0	98	2559	11811 .	ى. ئ. ئ. ئەرۇ	98	195	365
2000-2500		2.5	256	295	630	5.7	98	447	1171	4.:	چې	28.5	12307		- 2	4 = _	554
2500-3000	:	1.5	108	295	659 :	3.5	98	492	1181	7. a	244	2895	10383	2.2	:57	559	::5:
3000-3500		1.8	98	295	364	3.5	99	177	:087	5.6	98	1969	15714		76	171	4
3500-4000	:	2.5	98	295	650	3.4	98	98	591	6.0	394	1075	13019	1.8	: 16	64	125
4000-4500		2.8	98	394	689	4.4	96	344	767 .	4.6	95	1276	223 3	1.1	- 66	Ē+;	6:1
4500~5000		6.2	197	295	591	8.2	98	194	386	7.6	98	2018	14610	4.00	9.6	195	380
5000-6000	:	13.2	98	295	591	21.0	98	394		22.3	96	2854	29100	7.0	44	3-4	. : : ?
6000-70 00	1	6.2	:28	295	492	14.i	99	295	689	23.2	46	3 5 1	_4_4e	E. 1	; ~ ²	441	7514
7000- 8 000		8.2	98	295	591	9.8	98	295	689	18.7	98	23e2	13917	10.1	195	4-2	. 123
8000-9000		5.3	167	246	394	11.1	98	197	594	20.5	φ <u>ä</u>	.an	iaria	12.1	145	34.	
9000-10000	:	2.0	98	295	394	5.9	98	295	492	15.4	98	1675	25545	11.9	_ 95	591	
10000-11000		4.6	98	197	295	1 2.4	96	197	522	13.a	98	2461	24447	14.5		49:	: eT
11000-12000		4.7	98	197	364	9.3	96	: 0 ^	47.	16.1	96	1016	17754 .	4	`4€	4 +	: 57
12000-13000		3.2	98	197	394	8.7	98	197	. 95	18.2	98	ia.	22494	11.5	:67	472	.111
13000-14000		4.0	98	98	295	6.3	99	96	795	16.7	98	27	2:68	1 . 4	75	49	
14000-15000	;	2.6	98	98	207	5.3	98	197	295 :	14.7	98	1445	20624		5.4	- 4	1112
15000-16000		2.1	98	197	295 .	5.7	98	197	295	12.5	 98	2247	19718	9.2		492	984
16000-17000		1.3	98	164	230	1.9	101	104	525	11.8	056	3445	675.	3.4	. 4	615	
17000-18000	- 1	0.4	164	164	328	2.1	164	154	328	9.0	820	59:5	: 7550	٠. د	.64	492	264
18000-19000	1	0.9	:64	164	164 .	2.1	164	164	329	15.	606	15912	: 6565		. 64	4	984
19000-20000		9.6	164	164	164	0.3	164	246	228	0.6	820	14929	5594	2.1	. 54	442	625

1200Z FIGURE B-12-5-D PIARCO MONTHLY





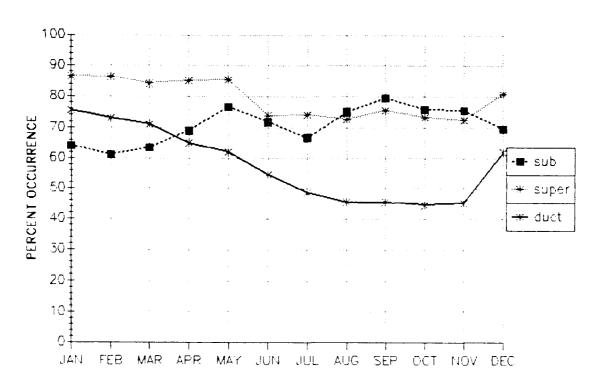
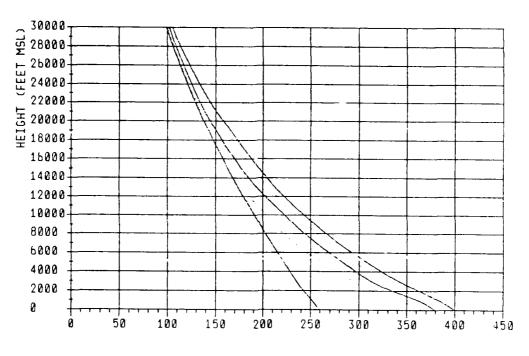


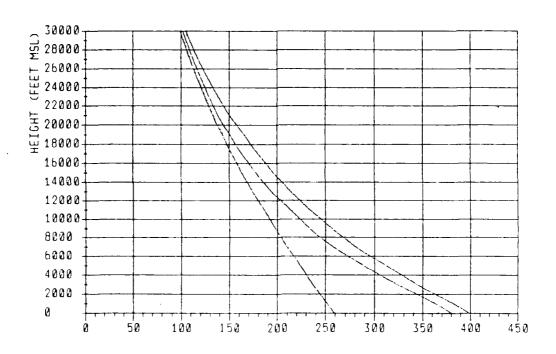
FIGURE B-12-6 B-206

1200Z

N PERCENTILES



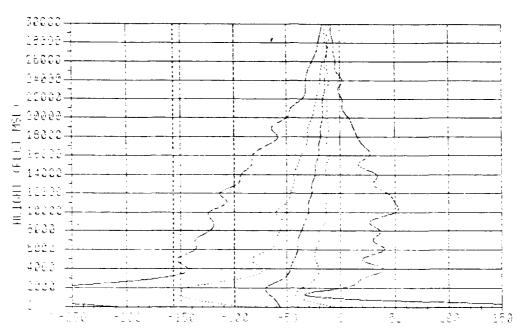
N (N-Units) 0000Z



N (N-Units) 1200Z

FIGURE B-13-1-A B-207

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z

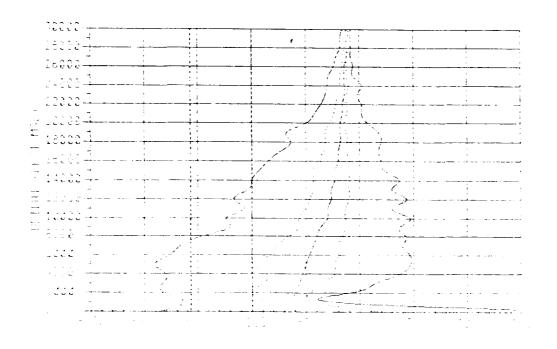


FIGURE B-13-1-B
B-208

MGT PT MEL	1 1%	H PERC	ENTILES #OF	90%	98%	1%	DND.	H PERCEN	TILES 90%	9 9 %	; ; ; ;		OCCURRE SRLR	NCE SUB	:
SPC-800 800-1000 1700-1800	:259.80 :258.00 :252.51	373.58 385.87 384.80	303.80 377.80 368.58	393,78 368.28 378.80	403.32 : 397.06 : 388.56 :	-179.16	-93.75 -89.58	-45.83 -58.33 -90.41	187.50 -33.33 -39.56	551.31 1.67 -16.86	1 1	7.7 . 4.0 :	12.4 . 7.5 :	66.3	
1500-2000 2000-2500 2500-3000	1248.30 1244.02 1238.80	338.56 322.38 309.19	307,88 344,28 328,50	368.50 357.25 344.88	378.38 365.75	-329.12	-186.25 -160.41	-66.66 -72.91	~41.69 ~43.75 ~35.41	-18.98 -13.00 -4.17	::	17.2 18.4 10.0	23.9 : 31.9 : 26.1 :	0.8	:
3000-3500 3501-4000 4000-4500	1238.00 1232.63 1229.20	288.25 288.87 282.56	316.50 308.06 300.38	332.38 322.75 314.06		-106.66 -143.12	-97.91 -81.25 -78.00	-88.25 -80.00 -80.00	-29.16 -25.00 -22.91	12.50 16.66 29.16	11	2.9 : 1.2 : 0.9 :	12.6 : 5.7 : 3.0 :	2.4 3.6 3.7	:
400-000 5000-000	1228.90	275.18 260.25 246.00	293.06	306.38	317.75		-72.91 -75.00	-48.83 -43.75	-22.91 -23.30	33.33 18.68	- • • ·	1.8	7.7	9.9 4.4	• :
8000-7000 7000-8000 8000-8000 8000-10000	1213.40 1207.00 1200.40 1184.40	233.40 222.30 212.60	267.75 255.20 242.50 231.10	281.04 288.08 255.40 242.80		-133.33 -120.05	-63.28 -80.02 -86.84 -60.00	-41.66 -39.68 -39.71 -33.33	~23.30 ~20.05 ~19.92 ~16.66	24.78 29.95 33.33 30.07	11	2.2 : 2.4 : 2.6 : 1.2 :	4.4 4.7 4.8 3.4	5.1 6.2 7.4 8.1	:
10000-11000 11000-12000 12000-13000	:182.80	203.70 194.00 185.10	220.90 210.60 200.90	232.10 222.00 212.40	239.70 : 229.00 : 219.14 :	-104.52	-56.77 -50.90 -48.61	-30.07 -29.95 -29.69	-13.28 -13.41 -13.29	43.38 50.00 38.18	11	2.6 : 1.7 :	5.4 3.8 4.2	11.5 9.1 9.0	:
13000-14000	1171.80	177.40 170.60	191.60	203.70 195.10	209.80 :	-94.61	-43.39 -43.23	-28.56 -23.30	-13.28 -13.28	39.97	- • •	0.8	3.8 2.9	10.4	. ;
18000-18000 18000-17000 17000-18000	155.90	184.40 186.90 153.10	175.20 362.30 161.10	187.00 179.50 171.30	185.32 1 177.10 1	-79.85 -77.48 -87.98	-38.71 -35.41 -32.03	-23.30 -21.95 -20.00	-13.28 -11.85 -12.03	18.88 23.98 18.01	: 1 : : : :	1.0 : 0.7 : 0.2 :	2.2 : 1.6 : 0.7 :	8.4 9.9 5.7	1
1800n-19000 18000-20000	1140.50	147.30 142.40	154.50 148.00	184.10 158.40 	189.60 : 181.84 : 184.70 :		-30.00 -30.00	-18.04 -17.96 	-11.95 -12.03 -12.03	13.08	11	9.4 : 0.2 : 0.3 :	1.0 : 0.4 : 0.1 :	8.5 5.2 4.1	
21000-22000 22000-23000 23000-24000 24000-25000	1131.60 :127.30 :122.60	133.20 128.90 124.20 120.00	137.10 132.40 127.60 122.80	143.70 138.00 132.40 127.10	148.30 1	-40.00 -33.98 -31.95	-22.03 -20.00 -20.00 -18.04	-16.01 -15.84 -13.98 -13.98	-12.03 -12.03 -11.95 -11.95	0.00 1.95 -1.95 -2.03	::	0.1	0.1	2.9 2.7 2.4 2.3	
25000-26000 26000-27000 27000-26000	:111.00	116.10 112.30 109.20	118.80 114.60 110.50	122.20 117.70 113.20	125.20 ; 120,10 ; 115.60 ;	-24.08 -22.03 -20.00	-17.96 -16.01 -14.06	-13.98 -12.03 -12.03	-11.95 -11.95 -10.00	-3.98 -3.98 -6.02	- • • ·	0.0 : 0.0 : 0.0 :	0.0	1.1	* :
28000-29000	103.40	104.50	108.50	108.70		-18.04 -18.01	-13.96	-12.03 -11.95	-10.00	-7.97 -7.97	- • •	9.0	0.0:	0.3	
30000 31000 31000-32000 32000-33000 33000-34000	: 83.70 : 80.10 : 87.10	97.90 94.60 91.10 88.00 85.80	99.60 98.20 92.70 89.40 86.70	101.30 97.90 94.40 90.80 67.70	99.10 : 95.50 : 91.60 :	-15.94 -22.03 -12.03 -23.98	-12.03 -12.03 -12.03 -12.03 -11.95	-11.95 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0:	0.0:	0.3	:

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BOT	:	N PERC	ENTILES			1	DND	H PERCEN	TILES			PERCENT	OCCURR	ENCE	:
PT MSL	1 %	10%	50%	90%	991	1 X	10%	50%	90%	8.93		DUCT :	SRLR :	SUB	
BPC-500	:260.73	374.78	384.88	394.08	402.10	:-248.60	-87.50	-45.83	145.83	383.29	- • •	5.8	9.3	66.7	•
500-1900	286.70	367 28	378.75	386.56	396.34	: -137.50	-03.33	-62.50	-37.50	-4.17	1.1	1.3	3.7 :		
1000-1500	:252.60	357.88	369.56	378.50	305.50	-180.00	-03.33	-82.50	-41.66	-16.66		1.7	5.8 :	0.4	•
1500-2000	1248.90	347.08	360.00	366.88	375.30	-103.33	-93.75	-62.50	~45.83	-23.30		2.9 .	9.7		1
2000-2500	1245.40	334.63	350.00	359.06	365.69	163.33	-100.00	-82.50	~47.81	-20.83		3.3 .	11.2		1
2500-3000	1241.52	322.19	338.75	348.75		1-170.83	-95.83	-60.41	-43.75	0.00	. :	2.8 .	11.6		ï
3000-3800	237.70	311.09	327.75	338.50		-165.98	-87.50	-58.33	~37.50	6.25		2.4	6.1		1
3500-4000	234.43	302.00	318.38	329.68	337.50	156.25	-85.41	-56.25	~31.25	12.50		1.8	7.3 .		:
4000-4903	1231.10	293.00	309.38	321.50		153.41	-87.50	-54.16	~27.08	15.91	1 1	2.0	7.4		:
4500-5000	:227.90	284.00	300.69	313.56	321.55	-109.58	-89.58	-54.16	-26.56	39.19	: : • • • -	8.2 .	13.5	6.8	1
5000-6000	1222 20	286.69	287.25	301.50	3.0.56	:-177.08	-91.66	-50.00	-23.30	39.58	- 1	8.0	14.1		
6000-7000	:215,10	248.00	271.25	285.38	293.69	1-1/3.27	77.08	~ 45 . 83	-23.3C	37.50		4.5	9.6	8.2	
7000-8000	1208.32	233.90	257.00	271.25	280.00	-152.83	-70.05	-41.88	-20.05	33.33	: :	3.3	7.9:	9.8	
0000-0000	:202.00	222.70	243.40	257.69	267.35	-133.33	-60.02	-36.71	-16.66	48.03		3.1	€.3	9.2	1
9 000-10000	195.00	212.70	231,70	245.19	254.20	113.28	-53.25	-33.33	-13.41	39.97	- : :	1.6	3.5	8.3	
10000-11000	:169.70	203.30	221.40	234.10	243.50	-126.29	-50.64	-30.07	-13.41	36.59		2.2	4.9	11.3	•
11000-12000		193.70	210.90	223.50	230.80	-100.00	-46.74	-29.85	-13.26	3C.07		1.3	3.6	8.6	i
12000-13000	178.20	185.30	201.60	213.80	220.85	-113.41	-46.61	-26.69	-10.03	39.97		1.9	4.9	11.3	i
13000-14000	:172.10	177.70	192.50	204 90	211.00	-100.00	-43.36	- 28 89	-10.03	30.07	1.1	1.4	3.9	10.5	:
14000~15000	.166.60	170.80	183.80	196.10	201.70	-96.74	-43.36	-23.44	-13.28	30.07	:	1.5	3.5	9.6	
15000-16000	1181 30	164.60	175.80	167.70	193.40	-86.59	-39.97	- 23.30	-10.03	23.30	• •	J.5	2.6:	8.3	
18000-17000		159.20	168.70	179.92	105.00	- 79 . 69	36.01	-21.95	-11.95	20.00	- ; '	0.4	1.4	8.1	
17000-18000		183 40	181.40	171.90	177.30	-72.00	-33.86	-26.00	-11.95	10.04		0.4	1.4	7.1	
19000-19000		147.50	194 70	164.10	189.80	- 88.04	-32.03	-18.04	-10.00	20 00		0.8	1.3	10.5	÷
19000-20000	140.50	142.40	148.10	56.69	161.60	98.01	-30.00	-17 96	-13 98	10.00		0.1	0.3	9.3	
20000-2.000	138 04	137.70	142.10	149.89	154.70	45.98		-17.96	-13.98	6.02	- • •	3.2	3 1	4.0	
		133.10	136.00	143.79	140.15	-40.00	-28.01 -22.03	-16.01	-12.03	2.03			0 4	3.4	
22000-21000		128.70	132.20	138.00	142.20	- 33.98	-20.00	-15 94	11.95	0.00		5.5	5		
23000-24000		124.00	127.50	132.30	130.36	30.00	-10.04	-13.98	-11.95	-2.53		- 5 S	5 2	2 0	
24000-25000		119.80	122.60	120.95	130.30	-30.60	-18.04	-13 98	-11.95	-3.58		0.1	0.1	1.0	
						•					• • •		· - : •		1
13000-28000		115.90	118.40	122 06	124.90	-24.06	-17.96	3 98	-11.95	-0.02		2.0	0.0	1.3	
28000-27000		112 16	114.40	117.40	126.00	-21.95 -16.04	-16.01 -14.06	-12.03 12.03	-11.95 -10.00	- 6.02 - 7.97		0.0	0.0	G 4	
20000-20000	161.50	104.40	108.30	198.50	119.20	17.86	13 98	-12.03	-10.00	-7.87		0.0	0.0		
		101.00	102.00	104 77	106.40	16.01	-13 99	1 95	-10.00	-6.05		J.0	0.0	⊅.∔ ⊙ 1	
22000-30000		101.50				•	- 13 90		-10.00	-6.05	• •				
30000-11000		97.70	99.40	151.15	152 33	-14 36	123	:0 00	-10.00	-7 97		0.0	0 0	0 1	
31000-3200-	90.70	94.50	96,50	97 %	98 4,	-17.96	-12 63	11.00	-10 50	-7 9 7		٥.٥	0.0	0 1	
33000-33000	87.40	91.50	92,60	94 20	97 20	-12.03	+12.03	-15 00	-10 90	7 97		6 9	0.0	0.1	
33000-34000	93.99	97.90	99 30	9 / 6	9 4 4	- 20.00	-11.95	12.00	-10.00			0.0	0.0	0.0	
34000-35000	41.05	65.70	96.60	87 80	89.20	- 22.63	-11.95	19.90	-8.08	7 9 7		0 0	0.0	0.0	

1200Z FIGURE B-13-1-C B-209

THICKNESS STATISTICS

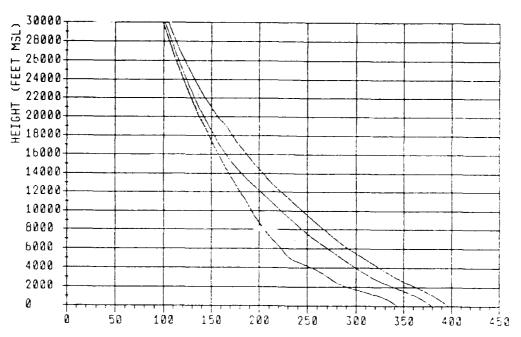
BASE		DUCT	S RCENTIL	F5		SALA THI EE	S RCEN'IL	F ==		NOEM	AL EFCENTI	. 4.5		SUB THE PE	FCENTIL	. £ 5
FT MS.	%FRC	10%	50%	₩0%	%FR0	10%	50%	90%	NERD	10%	5.0%	90%	%FFC	1.5%	50%	9.1%
SFC-500	7.7	20	118	217 :	12.4	67	:18	1197 .	75.6	767	1988	14975	66.5	92	116	217
500-1 000 .	7.5	197	591	866 :	4.:	96	295	1476 .	1.9	98	1080	34561	v. 4	∀ 6	140	137e
1000-1500	5.5	295	291	-60	8.1	98	59:	1476	2.9	-44	9252	54.79	0.3	295	472	886
1500 ~\$∪00 .	1 - 4	195	450	767	16.1	48	68 9	7.7e	8.5	. 444	12599		5	48	44	78?
20 00-2500 .	8.1	197	492	787	17.5	76	394	1181	14.5	1978	11516	3310 5 .	. 5	197	7.74	2461
250 0~3000	2.7	197	294	99°	9.5	9.€	794	984	20.0	1752	935	1261	4 - 52	98	フロフ	2165
200 0-1500	J.9	157	295	a 5	こ.フ	∍ e	197	1181 .	12.9	4 72	6496	32022	1.5	98	394	1604
3506-4 000 (ା. ଥ	197	295	591	2.7	98	49	984	4.7	98	6 U U 4	31220	1.6	96	640	1181
400 0-4500 :	0. 7	118	394	489	1.5	96	492	787 .	i.a	98	4626	01008	1.7	295	689	1083
45 00~5000	2.5	98	295	561	3.9	98	295	287	6. 7	197	8612	20349	1.8	48	394	984
30 00-6000	0.6	:18	394	569	2.4	96	49.	787	9.1	96	5015	29660	2.5	98	59:	1266
6000-7 000	2.0	98	295	391 .	5. t	98	295	589	5.5	98	4675	18675	3.6	98	591	1201 .
70 00- 8 000	1.8	98	295	472	Հ.9	96	394	689	6.6	48	4675	27878	4.1	98	689	1280
8 666~9666 .	2.2	98	246	492 .	3.5	98	295	591 .	a. o	98	3150	26707	5.1	98	591	1376 .
9000-10000	Ŭ. &	98	197	394 :	⊋.8	98	197	581 .	6.0	98	4626	25909	5. i	98	492	:083
10000-11000	2.6	98	197	295	4.8		197	294	10.2	98	5758	24935	6.9	95	591	:368
11000-12000 .	1.7	98	197	205	3.5	96	295	492	7.6	98	2461	23715 -	6.3	98	59.	1181
12000-17000 .	1.4	98	197	295	3.5	96	197	394	8.1	99	5217	22671	5.5	98	689	1378 .
13000+14000 :	1.2	98	197	295	2.2	78	197	294	7.4	197	5742	21785	7.2	98	492	1983 .
140-0-15000	0.7	76	146	264	2.9	96	197	295 .	6.0	98	4331	20604	4.7	98	591	1093
15000-16000 :	1.6	98	98	197 :	2.0	98	197	197	6.8	 9a	10073	198.7	5.9	96	394	958
16000-17000	0.6	105	164	282	1.6	78	104	328	9.7	426	18945	19832	6. 3	164	492	1115
17000-18000	0.2	: 64	164	328 .	ં. જ	164	164	328	4.0	589	17225	17881	3.6	326	491	984
18500-19000	0.4	164	164	164	9.8	154	164	328	7.8	1083	15912	16733 :	7.0	164	492	820 :
19000-20000 :	0.2	104	164	. 64	0.4	164	164	104	3.9	673	15092	:5748	1.5	164	410	826

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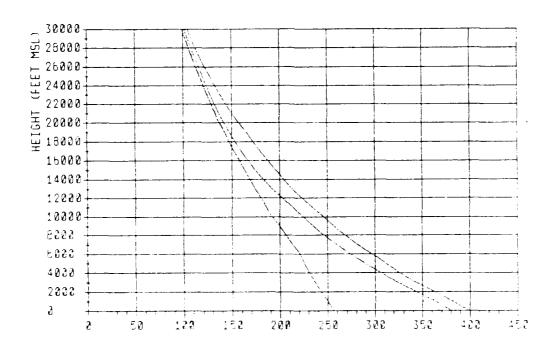
BASE		0∪0* 36 4⇔*	S SCENTIL	.ES .		54.FE	S PCENTI	_E 5		امن∓ان، عامب-	HL ERCENTI	. ES		SUB THE PE	ERCENTI	_£a
F" MBL	FRE	1.07	20%	90%	VERC	11 %	5.7	90%	KEHG	10%	50%	41/%	NERG	. 5%	5	9.0%
SFC-500	2.6	92	1:6	494	9.3	96	118	:567	97.6	::-6	6102	34975	66.7	118	190	212
500-1000	O. 7	78	492	650	1 - 4	78	689	1417	1.8	98	7000	14481	0.2	98	197	1673
1000-1500	1.9	.77	491	619	3.4	95	686	1575		98	3790	3:794	10.2	96	295	187.
1500-2000	2.1	167	445	767	2.9	78	669	146?	5.4	641	10915	33548 .	0.12	394	837	137e
2000-250-	: . =	;:8	394	664	5.0	98	59:	1.0	4.7	746	6495	12908	e	::=	54:	1152
ごう りか・3000	1.7	197	394	589	5.5	98	794	784	2.4	118	4429	32297	1.0	98	591	1 1128
シェット・ ~ こうり っ	1.7	96	295	5:∑	7.7	98	492	1101	6.	206	45.7	11884	1.1	295	794	.6.74
3500-4000	1.:	197	:74	707	4.5	78	:94	784	5.1	78	2707	3:343	1.4	98	344	1780
4(i)()···48(i)()·		:28	: ~ 4	797	3.9	5.6	492	797	4. 7	98	2618	20,449	'	167	591	676
4500-5000	4 . 2	: 18	295	59:	7.9	98	594	994	a. 7	197	708€	30349	4.7	197	492	984
5000-6000	2.7	76	294	271	7.5	92	445	984	16.6	98	0093	29857	3.5	?e	497	984
6000-70 m	7.5	:97	295	59:	6.8	98	295	787	9.4	96	5413	28774	4.3	96	491	1181
#000-6000	2.5	76	195	492	5.3	98	I 95	689	9.7	78	4429	17966	4.6	98	59;	1260
8 000- 9 000	1.6	98	295	394	۹. ۵	96	295	65	1	ନ୍ତ	3297	1660E	o. :	98	59.	1376
9 000~(1000	1.1	96	197	394	ī. G	98	292	49.	5.9	98	2658	25723	4.9	78	497	964
10000 11000 .	2.2	98	197	794	4.7	78	; 97	492	13.9	98	4030	24617	6.6	98	492	1289
1000-1207	1.2	98	97	295	7.5	98	97	394	7, 7	크는	7361	23656	7.17	96	54:	1447
12000 - 13000	1.9	78	:97	195	4.4	98	197	794	11.1	98	2642	12770	a. 6	78	591	::8:
3000 (4000)	1.2	98	197	295	3.6	96	197	. 9		98	57.9	2:687	6.8	46	443	1063
14000 - 15 mg	:.5	98	197	195	5. 1	78	10-	295	9.2	≎8	9498	_U0 /4	6.2	98	492	1181
18000 - 16000	5	98	98	.97	4	78	19.		7.6	 90	4479	19719	4.9	98	:94	1027
400 - 170 min	1.15	⇔ €	164	295		131	16.4	326	7.	755	161.6	.0612	= . 9	13	497	1117
7000-19-00	. 4	164	154	: 54	1.4	: 54	164	1.28	5.8	a20	172.5	1 2 2 1 7	4. 5	104	492	1 12
●ク ウラ~(9 -11-1	. G	.64	. 64	: 64		64	: 64	7.16	9.4	62	159.1	10509	8.3	. 64	492	€ ≟ .
19000-2 x 50		: 54	: 54	104		164	164	164	4.9	1542	15256	15748	3.4	: 64	497	6.0

1200Z FIGURE B-13-1-D B-210

N PERCENTILES



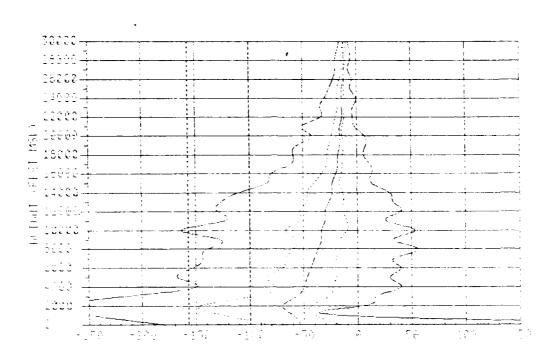
N (N-Units) 0000Z



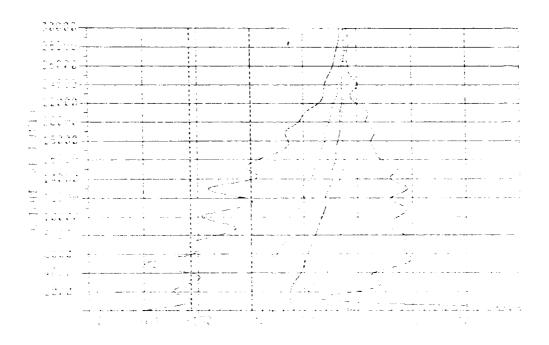
N (N-Units) 1200Z

FIGURE B-13-2-A

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-13-2-B B-212

HATO/CURACO

WET-DRY TRANSITION

HGT PT MSL	: : 1%	N PERC	ENTILES 50%	90%	99%	: 1%	DND 10%	H PERCEN	TILES 90%	99%	::	PERCENT DUCT :	OCCURR SRLR :	SUB :
SFC-500 500-1000	:259.50	368.69	381.22 374.58	391.00 385.12	392.25	:-302.08 :-143.85	-94.20 -81.25	-50.00 -56.25	163.12	497.03	::	9.6:	12.8 :	57.3
1000-1500 1500-2000 2000-2500	1252.50	351.75 341.20 325.74	365.88 356.50 345.38	376.15 366.75 356.50	374.06		-83.33 -127.08 -145.83	-56.25 -60.41 -68.66	-33.33 -39.58 -43.75	4.17 -8.25 2.08	11	3.5 : 10.0 : 13.7 :	6.0 : 15.6 : 23.8 :	1.9 : 1.0 ! 1.8 :
2500-3000 3000-3500 3500-4000	1241.50	310.23 292.19 289.97	332.00 320.19 311.13	344.78 333.50 324.25	341.50	:-221.27 :-204.23 :-189.67	-122.91 -97.00 -85.41	-64.58 -58.25 -54.16	-37.50 -27.08 -23.30	10.42 16.79 25.00	::	8.5 : 3.5 : 3.1 :	22.2 : 11.3 : 6.2 :	2.6 : 3.8 : 4.1 :
4000-4500 4500-5000	230.80 227.28	281.86 272.86	302.69 294.86	316.00 309.06	325.00	:-181.27 :-223.29	-83.33 -83.33	-80.00 -80.00	-22.91 -20.05	39.58 54.54	11	2.8	7.4 : 9.7 :	4.9 8.8
\$000-8000 \$000-7000	1220.60	258.89 242.70	283.25 289.56	297.75 283.38	291.01	:-172.91 :-172.91	-83.33 -70.05	-43.75 -41.66	-16.66 -16.66	52.50 52.22		5.3 6.0	11.2 :	7.8 8.1
7000-8000 8000-8000 8000-10000	1207.90 1202.00 1195.39	228.89 218.00 203.70	256.19 242.80 228.80	270.75 258.02 245.80	266.08	:-193.36 :-174.46 :-173.30	-73.30 -70.05 -83.41	-39.58 -38.71 -33.33	-18.66 -16.66 -13.39	63.26 57.48 43.36	1:	5.4 : 5.3 : 4.0 :	11.6 : 10.3 : 7.1 :	8.4 10.8 9.4
10000-11000		195.50	218.05	234.50	231.50	:-163.31 :-164.77	-63.41 -53.38	-29.95 -29.95	-10.03 -13.28	46.74	11	4.7 :	8.4 :	
12000-13000 13000-14000 14000-15000	172.00	181.30 174.60 188.40	194.90 184.70 175.80	213.00 203.40 194.10	210.80	:-139,97 :-116.66 :-108.64	-50.00 -43.38 -38.97	-26.69 -23.30 -23.30	-16.66 -16.66 -18.66	39.97 23.30 23.33	::	3.4 : 2.2 : 1.6 :	6.9 : 6.0 : 4.3 :	8.7 1 8.0 1 5.8 1
18000-18000		162.70 157.40	168.50 162.20	1 85 .70		-78.22 -72.97	-36.59 -30.00	-20.05	-16.69 -14.59	13.28	11	0.9 :	2.1 ;	
17000-18000 18000-18000 18000-20000	:145.00	152.00 146.30 141.50	155.90 150.30 144.70	169.60 162.00 164.40		-72.03 -58.01 -47.96	-26.01 -26.01 -23.98	-17.96 -18.01 -16.01	-13.98 -13.98 -13.98	11.99 3.98 8.01	::	0.6 : 0.4 : 0.0 :	1.6 : 0.3 : 0.4 :	4.7 1 4.0 1 3.3 :
20000-21000		138.90	139.90	147.90		-46.01 -38.04	-22.03	-16.01 -14.08	-13.98 -13.98	1.95	11	0.1:	0.1:	2.7:
22000-23000 23000-24000 24000-28000	1122.40	128.20 123.50 119.40	130.70 128.20 121.70	138.20 130.50 125.40	135.80	: -33.98 : -30.00 : -28.04	-20.00 -17.96 -17.96	-13.98 -13.99 -13.98	-12 05 -11.95 -11.95	-6.02 -3.99 -3.99	::	0.0	0.1:	0.9 : 1.3 : 2.2 :
25000-26000		115.50	117.70	120.70	124.80	: -22.03	-16.01 -14.06	-13.98 -12.03	-11.95 -11.95	-7.97 -7.97	11	0.0:	0.0:	1.0:
27000-28000 28000-29000 28000-30000	1103.30	107.70 104.20 100.80	109.80 105.90 102.50	112.20 107.89 104.20		: -18.04 : -17.96 : -16.01	-13.98 -13.98 -12.03	-12.03 -11.95 -11.95	-10.00 -10.00 -10.00	-7.97 -7.97 -7.97	::	0.0:	0.0 :	0.3 1 0.3 1 0.2 :
30000-31000	1 98.70	97.60	99.20	100.70		: -14.06 : -16.01	-12.03 -12.03	-10.00	-10.00	-7.87 -7.97	11	0.0:	0.0:	0.3:
32000-33000 33000-34000 34000-38000	1 \$0.10 : \$7.10	\$0.90 97.80 85.70	92.40 89.10 86.50	94.00 90.50 87.50	95.00 91.30	: -12 03 : -20.00 : -23.98	-12.03 -11.95 -11.95	-10.00 -10.00 -10.00	-10.00 -8.05 -7.97	-7.97 -7.97 -7.97	::	0.0 :	0.0 :	

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FT MSL	1%	N PERC	RNTILES 50%	90%	99×	1%	DND:	H PERCEN	TILES 90%	99×	::	PERCENT DUCT :	OCCURR BRLR :	
500-1000 : 1000-1500 : 1500-2000 : 2500-3000 : 3500-3000 : 3500-4000 : 4000-4500 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-3000 : 1500-30	258.77 255.70 262.00 248.80 246.28 241.40 237.76 234.60 231.45 228.00	369,38 362,28 363,87 344,37 333,08 320,87 309,25 299,49 291,26 262,56	381.00 374.50 365.69 356.69 347.25 336.25 326.00 317.00 306.38 300.25	391.69 387.69 370.87 386.50 356.69 346.56 336.19 327.75 319.56 312.17	393.37 382.37 373.13 364.09 354.56 344.00 334.94 326.67	1-261.25 1-106.25 1-111.45 1-156.25 1-176.00 1-179.16 1-190.41 1-171.69 1-150.00 1-185.63	-89.58 -79.16 -77.08 -83.33 -93.75 -97.91 -49.58 -83.33 -78.16 -81.25	-50.00 -82.50 -80.41 -80.41 -80.41 -50.25 -54.18 -52.08 -50.00	145.83 -35.41 -37.50 -41.88 -43.75 -43.75 -37.50 -33.33 -27.06 -28.89	409.48 -12.50 -14.58 -18.75 -10.42 -4.17 20.83 22.91 28.16 45.83		7.4: 0.6: 0.4: 2.8: 3.3: 2.6: 2.2: 1.6: 4.5	11.2 : 2.9 : 1.3 : 6.5 : 10.4 : 11.0 : 9.1 : 6.5 : 5.6 : 11.2 :	80.4 0.3 0.4 0.3 1.0 1.0 2.8 3.5 3.2 7.1
8000-7000 : 7000-8000 :	225.06 218.30 210.00 202.88 185.80	265.55 246.60 230.90 217.00 204.20	287.69 272.80 258.50 244.00 231.20	301.00 295.98 272.50 259.25 246.90	293.50 279.88 286.88	(-177.33 :-188.78 :-183.37 :-193.87 :-170.02	-87.50 -79.16 -79.85 -70.05 -60.02	-50.00 -45.83 -41.66 -39.58 -36.59	-22.91 -20.83 -20.05 -18.86 -18.66	39.58 50.00 83.38 60.02 33.33		5.8 5.2 6.4 5.9 4.3	13.8 : 9.3 : 11.4 : 11.3 : 7.8	7.7 8.7: 9.4: 10.9: 7.8
10000-11000 : 11000-12000 : 12000-13000 : 13000-14000 : 14000-13000 :	183.30 177.60 171.70	195.80 188.70 181.80 174.70 188.80	210.90 200.70 195.30 195.20 176.40	235.20 223.40 213.00 204.00 194.50	231.70 220.20 210.60	:-153.64 :-143.23 :-123.30 :-123.32 :-113.28	-69.92 -53.38 -50.00 -46.74 -43.23	-33.33 -29.98 -26.69 -23.30 -23.30	-13.41 -13.41 -16.66 -16.66 -16.66	36.71 39.97 39.97 36.71 23.44		4.5 3.9 2.6 2.8 2.6	8.6 . 5.8 5.7 5.7	11.7: 10.3: 10.1: 9.4: 6.7:
15000-16000 : 16000-17000 : 17000-18000 : 18000-18000 : 18000-20000 :	155.60 150.50 144.90	182.90 187.40 182.10 148.40 141.50	188.80 162.30 155.90 150.40 144.70	185.39 177.30 169.10 161.80 154.20	192.90 185.10 176.90 168.78 161.08	-96.74 -80.00 -83.98 -53.98	-36.59 -30.00 -28.04 -26.01 -26.01	-20.05 -19.92 -17.96 -16.01 -18.01	-16.66 -13.98 -13.98 -12.03 -13.96	28.69 19.92 9.17 12.03 6.02		1.3 . 1.3 . 0.4 . 0.6 .	3.3 2.3 0.9 0.3 0.6	5.1 5.5 3.6 5.7 3.0
	122.39	138.90 132.40 128.10 123.40 118.40	139.80 135.10 130.60 126.10 121.80	147.50 141.40 135.90 130.70 125.40	154.00 147.40 141.60 135.60 129.70	-46.01 : -42.02 : -30.00 -30.00 -27.96	-23.98 -21.95 -20.00 -17.96 -16.01	-18.01 -14.08 -13.98 -13.98	-13.96 -13.96 -12.03 -11.95 -11.95	6.02 1.95 -2.03 -6.02 -4.27		0.1 : 0.0 : 0.0 : 0.1	0.0: 0.1: 0.3: 0.0:	3.4: 2.9: 1.6: 1.0: 2.3:
25000-26000 : 26000-27000 : 27000-26000 : 26000-28000 : 28000-30000 :	110.70 108.50 103.00	115.50 111.70 107.40 104.00 100.70	117.60 113.70 109.70 105.60 102.40	120.70 118.30 112.00 107.70 104.10	124.39 119.40 114.60 109.70 105.70	-23.64 -20.00 -18.04 -17.96 -16.84	-16.01 -14.06 -13.96 -13.90 -12.03	-13.98 -12.03 -12.03 -11.95 -11.95	-11.95 -11.95 -10.00 -10.00	-7.97 -10.00 -8.05 -7.97 -8.05		3.0 0.0 0.0 0.0	0.0 .	0.5 ! 0.0 : 0.3 ! 0.1 : 0.0 :
\$0000-\$1000 : \$1000-\$2000 : \$2000-\$\$000 : \$5000-\$4000 : \$4000-\$\$000 :	\$6.30 83.20 89.70 86.70 84.60	97.50 94.30 90.70 87.70 85.50	99.00 95.80 92.30 89.00 86.50	106.65 97.40 93.90 96.30 67.50	102.00 98.60 94.95 91.20 88.10	-14.08 -17.88 -12.03 -18.01 -22.03	-12.03 -12.03 -12.03 -10.00 -11.98	-10.00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.05 -7.87	-7.97 -7.97 -7.97 -7.97 -7.97		0.0	0.0	0.1 0.3 0.0 0.0

1200Z FIGURE B-13-2-C B-213

HATO/CURACO

WET-DRY TRANSITION

THICKNESS STATISTICS

BASE		DUCTS THE PERCENTILES 10% Box 900					RCENTIL			NOFM THE F	ERCENT!				HCENTI	
FT MSL	%FRC	10%	30%	90%	%=FQ	1 0 %	50%	90%	755	1.7.	50%	90%	%FR0	10%	5.%	90%
9FC-500 :	7.6	92	118	217	12.8	20		787	97.3	1225	1619	34877	57.3	72	113	217
50 0-1000 .	1.5	96	491	689	1.7	98	107	1575	1.5	48	7.74	27642	. 4	မှန	. 48	조약원
1000-1500	2.2	256	591	965	4.:	78	591	1578	Ī.4	98	1575	16592	1.3	99	294	2047
1500-2000	B. i	256	492	827	12.4	48	492	1281	3.7	98	4626	33400	. 4	:97	964	1100
2000 -2500	7.4	295	492	886	14.4	98	:94	1270	9.2	98	9153	3300 6	1.0	98	669	1078
2800- 3000 :	2.6	98	492	499	9.4	98	- 9=	1014	15.4	: " 5	6200	310:3	i.5	207	29:	1151
7000-3500	2.1	197	394	738	2.5	98	295	1201 .	12.2	98	5512	12022	2.ι	98	591	1713
9800-4 000	1.8	98	394	827	3.2	96	491	925 .	4.9	96	3101	715	4	200	935	:170
4000-45 00	1.5	98	394	497	4.4	98	497	787 :	5.4	98	1577	30752	2.8	98	472	768
4800-5 000	5. 1	98	295	591	6.6	98	_ 9=	,98	9.2	96	2707	±50250 €	2.:	ΨĠ	591	.087
8000 -6000	2.2	98	295	630	7.1	98	447	787	12.6	98	3494	19258	2.7	. 97	687	1697
▲000 - 7000	5.2	98	295	551	5.3	98	492	787	a. ~	96	3843	28872	5.4	98	:94	:180
7000~6000	4.1	96	394	502	9.7	98	195	689	. 1 . 4	Ψà	1150	シフタミフ	5.3	ين ټ	& A .	178
8000-9000	4.4	108	394	561	8.8	98	295	487	14.7	96	1148	26510 -	7.4	99	980	1670
9000-10000	3.2	197	246	457	5. ₹	187	295	492	11.€	9e	4026	26018	4.9	45	394	644
10000-11000	4.7	98	295	194	7.5	96	295	491	18.0	98	3445	24876	9.9	96	441	1181
11000-12000	4.0	98	197	74	6.9	98	1.47	594	11.7	76	12004	23754	€.8	96	445	1280
12000-13000	3.1	98	197	274	5.6	98	246	394	11.4	98	5798	22790	5.8	98	- 54	1101
13000-14000	1.9	98	197	295	5.5	98	197	295	1	99	6414	1.884	5.6	78	144	:180
14000-15000	٤.5	98	146	295	4.1	96	197	2.54	7.1	96	469.	20752	2.7	င္မ	194	1983
15000-1600c	6 .9	98	148	197	1.9	96	96	256	5.6	99	19019	19915	4.;	96	457	1155
16000-17000	J. 6	98	164	164	1.5	131	164	230	5.6	640	18127	16931	ž. 9	279	492	867
17000-18000	v. 6	164	164	164	1.5	164	.64	164	4.7	4148	17061	17717	5.0	308	49_	48
18000-19000	0.4	164	164	164		154	164	164	1.7	5019	16076	:6897	2.7	104	492	1050
19000-20000	0.0	-	_	_	0.4	154	. 64	: 64	1.4	164	447.=	15A1.	;. ₩	164	656	935

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		Duc				÷ た 。 ≒				NORM				_ ೬∪೬		
BASE		THE PE	RCENTIL				ERCENTI.				ERCENTI				RCENTIL 50%	.£5 90%
FT MSL	%FRO	: · /.	50%	90%	XF F	10%	5/ %	900,	ኒ ም ፍር 	11/2	5 % 	90%	%FRC	10%	D1. %	
SFC~500	7.4	54	::8	217	11.1	54	116	95.	→7.6	1575	7162	74975	60.4	:18	190	217
500-1000	9.1	492	471	492	. 🤿	7H3	96	::76	2.8	157	5 4 7	14571	0.0			
1000-1500	J. 3	295	447	29:	:	4 ~ ~	937	113.	1.0	:445	"≅ 74	24188	0.1	591	291	5 91
1500 - 2000	2.6	79	244	6 90	5	≎ 8	689	1028	\$ 4.60	70 5 1	7382	33695				_
200 2500		- ج	394	ا د د د	5.4	≎a	591	. " '6	4. =	212	40.0	1578.	2, 4	- 4 .	794	::61
2500 - 7000	1.2	98	40.	728	4.9	98	492	19.24	<u> 4</u>	9€	3691	72327	7.7	197	986	: 83
きりが 一き書い	1.2	98	195	ب نے ہے	. e	9⊖	4		÷. 4	5.:	L756	- 45	2.	नेव	294	767
3500-4000	1.4	108	394	•••	Į.∍	98	4	÷74	5.	~ ⊖	1761	71431	2.	98	591	1983
4001-450	. 9	74	4	689	5.7	9ê	4	945	7.9	∀ ≟	1722	7.04€	1.€	بان.	64.	7B /
4500 -500cc	3.0	93	.94	683	7. "	98	394	945	2.4	ક રે ∂	40.0	10029	4.9	I46	472	1083
5200-6000	2.8	78	295	571		98	-44	767	14.1	725	-64	19750	7. a	÷6	599	: * 78
6000 = 7:000	4. :	ve.	99	- € : 5	7.	ب ق	394	76 °	10.6	غنب	3146	28479	5.7	ಾತ	54:	1417
1000-8000	5.2	98	205	591	9.1	98	774	719	1.5.6	98	2854	17896	5.5	98	591	1654
89909~ 9 900	5.1	98	295	44_	♀	46	275	57.	11.1	¥e	6023	26973	7.5	ခုန္	447	: 309
9000-10000	3.6	157	2 9 5	4::	5.5	76	. 🕶	492	9.7	76	∻ ∪22	1582:	4.6	76	54:	- ଅନ୍ତ
16000-11000	3.6	98	; 97		*	98	197	437	. ร. ล	5.G	4774	14617	ė. ·	9€	689	1575
11000-11000	2.6	75	4.7	49	5.5	96	197	48.	11.2	ခ်မှု	1917	23656	6. i	÷8	491	1212
12000-12000 12000-12000	2.5	≎ B	245	795	4.6	98	197	:94		98	1957	12770	5.4	95	44:	: .8:
12000-1400	3.6	93	. 47	544	3.1	રું ક	192	- 94		433	6594	1,716	5 .5	유급	: 44	1151
14000-1400-1 14000-15000	1.5	26	197	74	J. e	98	79	298	2	يند	29914	2.98-1	4.]	36	194	124.
			98	175	· · · · · · · · · · · · · · · · · · ·	- · · · ·	197	195	٠	99	17776	:9656	1.5	98	497	959
15000-1610	1.5	76 ⊋5	: 64	154	2.7	::5	. 614		2.4	. 64	. d . 45	1265-	4.1	164	64	676
1 0 (0) - 1 7 · · · · ,			154	: 64		:64	104		4	. 54	5	г*өө:	1.5	:64	492	1247
12000-1a	2.4	. 54	154	; E. 4 , E. 4		. 6.4	. 4+		4	656	3 4, 1 36	. 6711	Ã. 5	194	4.92	6.1
1800-1900 -	. 4	: 54	:54	. 5.4		4	.54	:54			1.527	15148	1.5	459	555	4
: ♥ ∪00 + 200,000	•	. 54	. 5 4	. 0.4		. :: •	.54									

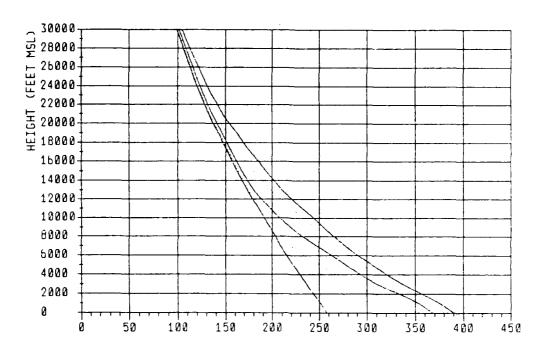
1200Z

FIGURE B-13-2-D

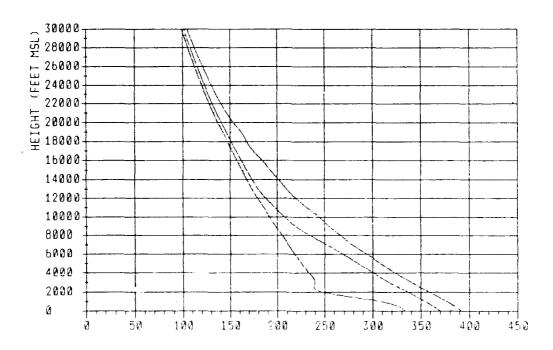
B-214

HATO/CURACO DRY SEASON

N PERCENTILES



N (N-Units) 0000Z

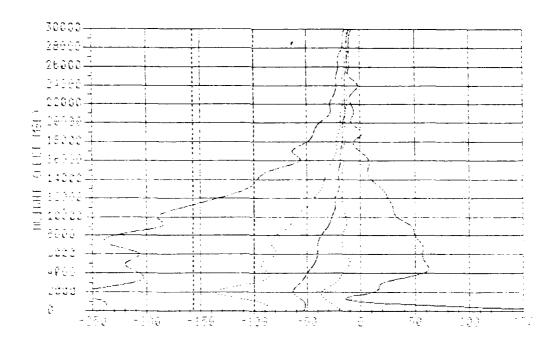


N (N-Units) 1200Z

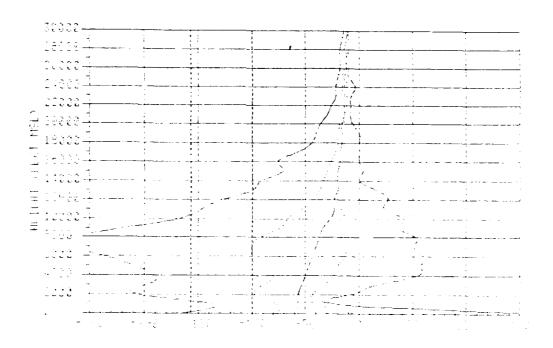
FIGURE B-13-3-A B-215

HATO/CURACO DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z FIGURE B-13-3-B B-216

HATO/	CUR	ACO										DRY	SEAS	ON
307 1			ENTILES			:		H PERCEN	TILES		1.1	PERCEN	T OCCURR	ENCE :
FT MEL :	1%	10%	50%	90%	99%	1%	10%	50%	80%	99%	: D	UCT :	SRLR:	SUB :
500-1000	260.80 267.06 283.80	358.75 352.87 344.19	370.94 384.50 356.69	382.75 378.00 368.56	385.38	1-364.56 1-170.63 1-214.75	-120.83 -77.08 -85.41	-48.83 -80.00 -82.08	110.41 -27.08 -29.16	395.81 -4.17 -10.25	11	15.5 2.7 5.4	18.0 : 4.6 : 7.6 :	48.4 1.0 0.9
1800-2000 1 2000-2800 1	250.39 248.79	331.25 313.60	348.50 338.19	387.69 348.80	365.00 385.19	1-304.39	-125.62 -145.83	-58.25 -62.50	-33.33 -38.41	-16.66 10.42	1 1	11.5 :	17.0 : 23.3 :	1.1 :
3000-3800 1 3800-4000 1	243.00 238.20 238.70	298.99 287.50 278.08	324.06 311.19 301.38	338.07 327.32 318.75	335.19	1-280.85		-84.58 -58.33 -52.8	-31.25 -22.91 -16.66	20.83 37.50 48.00	11	13.0 : 6.4 : 5.2 :	16.5	€.0 :
	232.20 228.80	271.17 282.38	293.80 286.19	310.88 303.75		1-187.50	-93.20 -93.75	-50.00 -47.91	-10.42 -10.42	66.68 85.41	;; ;;	7.5	9.7 : 14.9 !	9.2 14.9
8000-7000 I 7000-8000 I	223.60 218.80 208.58 203.62 188.80	248.40 232.12 218.40 208.80 200.20	273.58 258.00 242.30 225.50 212.50	292.38 278.75 268.19 252.60 239.30	288.38 276.08 263.88	!-218.68 :-228.69 :-250.00 !-222.69 :-173.31	-96.74 -86.71 -86.71 -76.89 -56.77	-43,78 -41,66 -37,50 -33,33 -29,95	-10.42 -13.29 -13.41 -10.06 -13.41	52.08 58.33 46.61 46.07 40.10	11	9.8 9.0 11.9 9.6		10.9 10.9 9.9 7.2 6.4
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	184.20 178.10 171.80	183.20 186.30 178.90 173.40 167.60	202.40 192.90 164.60 177.90	226.60 212.40 200.80 191.50 184.20	228.20 216.30 206.20	:-183.33 :-136.69 :-103.39 :-94.61 :-86.71	-80.02 -43.36 -36.69 -33.33 -29.95	-23.30 -23.30 -20.05 -20.05 -20.05	-18.68 -18.66 -18.66 -18.66 -18.66	13.41 20.05 13,28 13.28 6.77		5.3 3.4 1.9 1.7	7.8 : 4.1 : 3.1 : 3.1 :	5.6
18000-18000 18000-17000 17000-18000 18000-18000 18000-20000	188.80 180.40 144.70	162.00 188.80 181.60 148.00 141.10	168.40 160.10 154.40 148.00 143.70	173.30 100.30 100.40 153.70 147.70	180.16 170.36 183.70	: -76.56 : -62.03 : -43.98 : -40.00 : -32.03	-26.69 -22.55 -20.00 -20.00 -18.04	-19.92 -17.96 -18.01 -16.01 -16.01	-18.86 -18.94 -18.94 -13.98 -13.98	0.00 -8.02 -7.97 -8.02 -7.97	:: :: :: ::	1.0 : 0.3 : 0.3 : 0.1 :	2.4 : 1.5 : 0.4 :	2.0 : 1.7 : 0.8 : 1.4 :
20000~21000 21000~22000 22000~23000 23000~24000 24000~25000	131.12 127.00 112.30	138.80 132.20 128.00 123.40 119.30	139,00 134.80 130.20 126.70 121.40	142.50 137.60 133.00 128.40 123.80	143.70 137.58 132.30	: -26.01 ! -23.98 ! -23.98 ! -20.00 ! -20.00	-17.98 -18.01 -18.01 -15.94 -14.06	-15,34 -13,98 -13,98 -13,98 -13,98	-13.96 -13.98 -12.03 -11.95 -11.95	-7.98 -10.00 -10.00 -10.00 -7.97	11	0.0 :	0.0 :	0.7: 0.4: 0.2: 0.2: 0.7:
25000~25000 26000~27000 27000~25000 25000~25000 25000~30000	110.80 108.70 103.30	115.50 111.80 107.70 104.10 100.80	117.40 113.60 109.60 105.80 102.40	118.70 118.70 111.60 107.80 104.00	118.40 113.90 109.30	: -20.00 : -18.04 : -17.96 : -18.01 : -14.06	-14.08 -13.88 -13.98 -12.03 -12.03	-12.03 -12.03 -12.03 -12.03 -11.95	-11.95 -11.95 -10.00 -10.00 -10.00	-8.34 -10.00 -10.00 -10.00 -8.05	::	0.0 :	0.0:	
\$0000-\$1000 \$1000-\$2000 \$2000-\$5000 \$3000-\$4000 \$4000-\$6000	93.80 90.08 87.00	97.80 94.40 80.90 87.80	\$9.10 95.90 92.50 89.10 86.80	100.60 97.40 94.10 90.50 87.60	98.73 95.22 91.40	; -13.98 ; -13.98 ; -13.98 ; -18.04 ; -20.00	-12.03 -12.03 -12.03 -12.03 -11.95	-10,00 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.05 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	11	0.0 :		0.3 0.2: 0.0: 0.0:

0000Z

EGT F? MSL	1 1 1%	N PERCEN	TILES SON BON	Dox	: 1 1%	DMD 10%	H PERCENTILES	. 99x	1:	PERCENT DUCT :	OCCURR SRLR :	INCE :
SFC-800 500-1000 1000-1800 1500-2000 2000-2800 2500-3000 3000-3000 3000-4000 4000-4800	1346.11 1334.06 1310.63 1297.71 1286.93 1245.30 1240.60 1237.10 1232.50	354.75 3 347.06 1 338.37 3 327.50 3 313.69 3 289.59 3	372.78 383.38 186.19 377.28 187.69 367.56 149.25 358.38 140.06 349.25 128.20 338.42 118.88 329.78 109.89 321.69 101.59 314.19	385.25 374.88 365.25 356.08 347.00 337.75 329.97	1-270.81 1-100.00 1-129.18 1-161.88 1-228.19 1-210.41 1-219.78 1-212.78	-53.75 -72.91 -72.91 -79.16 -102.08 -100.00 -93.75 -83.33	-50.00 120.0 -50.33 -35.0 -50.25 -35.0 -50.25 -39.0 -50.25 -40.0 -50.25 -43.0 -54.16 -35.0 -52.08 -23.0	33 312.50 31 -18.78 30 -20.63 33 -22.91 33 -23.30 -6.28 31 11.42 32 27.08	11	8.8 0.4 1.0 2.8 5.3 5.7 4.8 4.5	11.9 1.3 2.8 7.6 11.9 13.1 10.0 8.1	52.3 0.3 0.2 0.2 0.4 1.3 2.6 4.5
4800-8000 8000-8000 9000-7000 7000-8000 8000-9000 9000-10000	1230.43 1223.60 1216.60 1210.61 1204.34	271.89 2 255.14 2 237.48 2 220.80 2 209.00 2	183.88 306.88 180.08 287.88 184.28 280.88 148.00 287.88 128.50 284.80	304.75 289.85 278.67 284.06	1-212.50 1-272.67 1-220.63 1-283.16 1-289.98 1-289.98	-87.80 -100.00 -97.81 -108.25 -102.08 -89.97 -70.08	-50.00 -18.0 -50.00 -16.0 -47.81 -12.0 -43.75 -8.0 -39.97 -12.0 -36.59 -16.0 -30.07 -18.0	86 86.66 80 83.87 13 72.91 10 36.59 86 36.88	:: :: :: :: :: ::	4.0 9.7 11.8 13.1 13.9 13.2 7.4	9.3 / 17.3 : 19.6 : 20.0 : 19.6 : 19.1 / 12.0 :	13.0: 12.9: 10.3: 7.8: 6.0:
10000-11000 11000-12000 12000-13000 13000-14000 14000-15000	1184.20 1178.20 (171.60 :166.10	186.20 1 178.80 1 173.40 1 167.80 1	101.90 228.80 192.00 213.00 184.40 200.40 177.70 180.00 171.10 180.30	227.40 214.60 204.50 194.69	1-176.69 1-143.38 1-113.26 1-83.36 1-69.56	-60.02 -46.61 -36.71 -33.33 -26.69	-23.30 -18.6 -23.30 -18.6 -20.05 -18.6 -20.05 -18.6 -20.05 -18.6	16 10.03 16 6.77 16 0.00 16 -3.26	1:	6.3 : 4.5 : 1.8 : 1.6 :	8.9 6.5 4.0 2.8 1.4	7.5 : 4.1 : 4.0 : 2.2 : 1.6 :
18000-17000 17000-18000 18000-18000 18000-20000	:185.50 :150.30 :144.80 :140.00	188.70 1 151.50 1 145.90 1 141.10 1	85.20 172.70 80.00 186.00 54.20 159.30 48.80 153.40 43.50 147.60 38.80 142.30	187.90 181.70	: -63.26 : -80.02 ! -37.86 : -32.03 : -30.37	-23.44 -22.48 -20.00 -18.04 -16.04	-18.92 -18.6 -17.98 -15.8 -16.01 -15.6 -16.01 -13.6 -10.01 -13.6	4 -6.64 4 -7.97 8 -8.02 8 -10.00	11	0.8: 0.4: 0.1: 0.2: 0.0:	1.4: 1.4: 0.2: 0.6: 0.1:	1.3: 0.9: 0.7: 1.5: 0.8:
21000-22000 22000-23000 23000-24000 24000-28000	:126.80 !122.20 :118.20 :114.40	132.10 1 127.80 1 123.20 1 119.20 1	34.30 137.30 30.00 132.70 25.50 128.10 21.10 123.50 17.20 119.30	142.22 138.80 131.80 127.00	1 -28.01 : -21.85 ! -20.00 : -20.00	-16.01 -16.01 -15.84 -14.06	-13.98 -13.8 -13.98 -12.0 -13.98 -11.8 -13.98 -11.8	3 -10.00 5 -8.05 5 -8.05		0.0:	0.3 : 0.0 : 0.0 : 0.1 : 0.0 :	0.3 : 0.1 : 0.3 : 0.5 : 0.4 :
27000-28000 28000-28000 28000-30000 30000-31000 31000-32000	110.70 1108.60 1103.10 1 98.60 1 93.40	107.50 1 104.00 1 100.70 1	13.40 115,30 09.40 111.40 05.60 107.30 02.20 103.60 99.00 100.50 95.80 97.30	113.40 109.10 106.40	: -18.01 : -14.08	-13.88 -13.90 -12.03 -12.03 -12.03 -12.03	-12.03 -11.9 -12.03 -10.0 -11.95 -10.0 -10.00 -10.0 -10.00 -10.0	5 -10 00 0 -10.00 0 -10.00 0 -10.00 -7.97	:: :: :: ::	0.0	0.0	0.1 : 0.0 : 0.0 : 0.1 :
	# 88.90 # 84.60	90.80 87.70	92.30 93.90 89.00 90.40 96.50 87.60	95.00 91.30	: -12.03 : -18.01 : -20.00	-12.03 -11.95 -11.95	-10.00 -10.0 -10.00 -8.0 -10.00 -8.0	0 -7.97	11	0.0:	0.0:	0.1 · · · · · · · · · · · · · · · · · · ·

1200Z FIGURE B-13-3-C

B-217

HATO/CURACO DRY SEASON

THICKNESS STATISTICS

BASE .		DUC!	'S RCENTIL	ES :		SALA THE PE	S RCENTI:	ES .		NORM THE F	AL ERCENTI	LES .		SUB THE PE	GPCEN 11.	_E.S
FT MSL :	%FRQ	1.0%	50%	90%	%FRG	10%	ちのた	90%	%FRQ	10%	57%	90%	%FRC	10%	5.%	90%
SFC-500	15.5	69	118	2:7	15.0	98	118	492	97.8	267	2553	15867 :	48.4	118	167	217
500-1000	2.4	197	492	886	2.6	96	295	1378	1.6	98	4036	34601	0.2	394	964	1575
1000-1500	3.4	157	394	886	5. 1	98	492	1280	2.6	394	4823	22461	0.5	294	492	1673
1500-2000 .	9.1	295	492	866	12.2	98	492	1101	5.4	256	7642	23420	0.5	98	295	394
2000-2500	7.2	197	394	689	13.5	98	492	1980 .	15.9	256	3937	32947	1.2	423	: 280	2195
2500-3000	6.6	197	492	665	::.8	98	394	1083	15.5	600	1986	31406	1.6	295	640	2156
3600-2500	2.6	197	294	610	7.1	98	197	984	14.2	98	24:2	31924 :	4.0	98	469	1575
3300-4000	2,5	197	394	59:	5.2	98	477	944	8.5	98	1181	31431	4.2	167	984	128
4000-4500	2. 7	138	194	61.	5.1	98	294	689	7.4	98	1673	30939	3.4	98	492	787
*****	5.9	96	295	492	11.1	95	294	787	14.8	98	2854	30418 (7.0	197	489	1673
8000-6000	6.4	157	394	59:	11.6	98	294	827	20.3	98	6496	29758	5.3	276	689	1565
~~~~ 7000	7.4	:97	394	59:	16.4	98	195	669	15.9	98	4282	28872	6.2	96	591	1171
700 0-8000	9.6	197	244	492	12.5	98	295	6 000	17.6	98	27246	27986	6.0	98	591	1.566
8 000-9000	7.1	48	295	443	12.6	98	197	571	17.7	295	26313	エアロウミー:	3.8	96	59:	1181
9000-10000	4.4	98	295	490	5.4	46	295	591	9.8	98	25230	25919	4.7	95	294	>94
-0000-11000	4.5	9E	295	794	7.5	96	. 57	492	12.3	325	2444Z	24935	3.4	98	492	1447
(1000-12000)	3.2	96	295	394	- 6	98	197	443	7.2	98	23065	23852 .	2.6	98	394	1398
.2000-15000 .	1.5	98	197	394	2.4	Ģ.	157	295	5.3	315	22179	22009	2.5	98	640	1417
13000-14000	1.4	98	197	344	3.0	98	1.77	335	4.3	98	21096	21785	2.3	98	497	1506
.4000-15000	1.3	98	:97	_95	1.9	96	197	384	4.0	98	20309	20899	2,;	9€	443	1112
15000-16000	0.9	96	98	295	2.1	98	197	 31: .	3.4	98	19423	19817	1,1	98	492	1096
14000-17000	0.3	131	164	230 :	1.2	164	164	328 .	2.4	2100	18373	18832 .	:.0	164	492	820
17000-18000	4.7	164	164	164	0.4	:64	164	164	6.6	492	17142	17717	りょう	492	984	1312
18000-19000	0.1	164	164	164 .	0.4	164	164	164	1.5	2723	16076	16700	1.0	164	492	656
19000-20000	0.0	_	_	_	0.1	164	104	164	0.6	14928	15502	15746	0.5	328	492	984

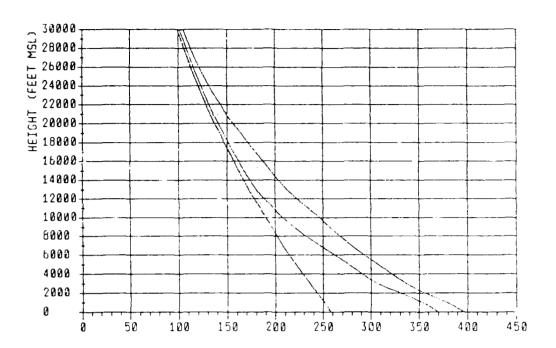
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EASE F* MSL			RCENTIL			5R_F	RCENTI	FC		NGRM.	ML ERCENTI			SUB THE FE	RCENTI.	c
	%FFC	10%	50%	90%	7.F#G	1.2	5ು%	90%	%FAG	10%	50%	90%	WERG	10%	20%	90%
SFC-500	9.8	75	167	217	11.9	50	116	217	98.6	1575	4626	34778	52.7	116	217	266
50 0-1006 .	9.3	98	295	492	Ú. 4	295	1280	1575 .	். 🖯	1476	5260	34680 .		98	98	98
1006-1506	ં.8	98	44]	787	1.8	96	541	1083 .	1.0	4016	33843	34069	6.1	295	295	295
1500-2005	2.3	197	295	689	5.8	98	591	1983 .	1.7	96	4035	33420 :	0.2	295	344	594
2006-2500	4.1	:57	394	767	6.9	45	497	1181	5.5	98	2756	32619	0.4	492	541	2854
2500-3000	7.2	197	394	787 .	7.1	98	492	784	9. i	945	3150	32416	9.9	197	787	984
3000-0500	3.	118	394	287	4.7	96	492	984 .	6.5	98	2658	8208	2.0	98	591	965
3 500~4 000	2.5	167	344	719	4. l	96	295	1045 .	6.4	98	1919	31333 .	2.8	295	591	1181
4000~4500	2.2	246	394	738	6.3	96	497	787 .	2.7	99	1772	30742	2.9	217	591	1240
4500-5000	7.5	98	295	591	11.7	98	294	787	:5.6	78	2165	30349	5.9	128	591	1476
5000-6000	7.0	98	394	959	12.4	78	394	617	21.3	79	2953	29758	9.2	98	591	1575
∆ √000- 7 000	: 5.9	197	244	591	:5.5	96	194	687	: 9.0	98	2835	28774	6.6	₩	591	1457
7 000- 8 000	10.9	197	394	492	14.6	98	295	591		78	8/61	27986	5. 3	96	492	1376
8 00 -9 00€	i 🕘 . 🗚	197	295	492	15. 🗆	9 ≟	295	57:	22.6	44.	2e 215	27002	4.:	98	394	1575
9000-10000	5.9	98	295	492	9.3	99	197	463	15.7	276	25.329	25919	2.9	98	492	1987
10000-11000	5.5	78	197	294	8.3	98	197	492	14.3	571	2- 345	24935	4.6	98	640	: 188
11000-12000	2.7	98	197	794	5.4	98	197	:94	8.7	364	21.459	13951	ī. A	96	394	1060
12000 -13000	1.3	96	197	295	2.4	98	:97	477	5.4	98	22376	22966	2.9	98	394	1122
12000-14000	5	98	197	295	2.7	98	197	105	4.3	99	20996	11785	1.0	96	443	1132
14000-15000	9.9	99	295	395	1.5	98	98	256	2.7	1545	20260	20899	1.1	99	669	1161
18000-161999	7	78	197	295	4	78	197	-	1.a	 98	19423	19817	·	98	794	689
10000-17 207	1.1	164	164	164	1.12	106	: 64	492	2.3	1234	18209	18931		328	459	620
17000-18000		164	164	164	2.2	228	120	126	7	164	17369	17661	0.6	164	656	1212
18000-1900s	€	154	164	164	6	: 04	104		1.7	15912	16.76	16733	1.1	:64	:64	919
1900n-20006	0.5				/. 1	164	164	: 64	2.6	2772	15429	15748	0.3	164	728	1148

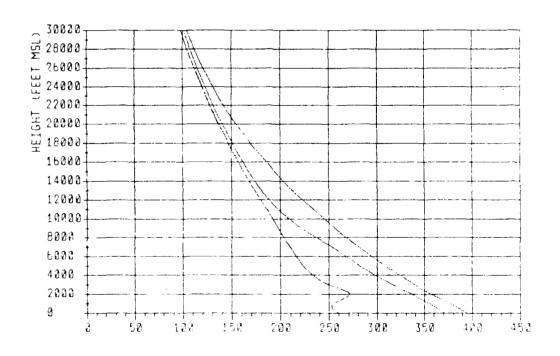
1200Z

FIGURE B-13-3-D B-218

N PERCENTILES



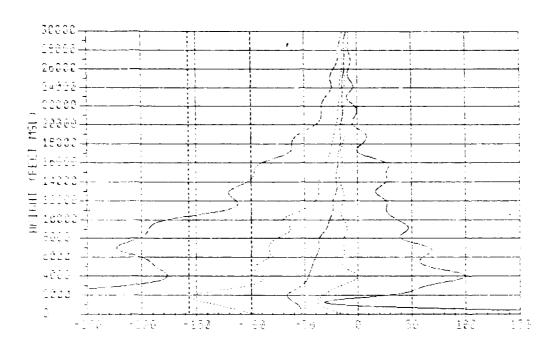
N (N-Units) 0000Z



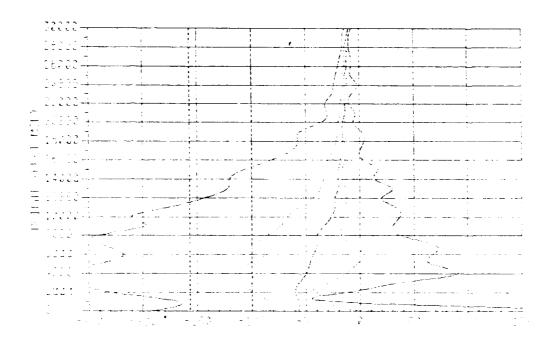
N (N-Units) 1200Z

FIGURE B-13-4-A B-219

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z FIGURE B-13-4-B

B-220

HATO/CURACO

DRY-WET TRANSITION

HOT N PER FT MSL 1x 10x	RCENTILES 50% 90%	89X	; : 2%	DND 10%	H PERCEN	TILES 90%	99%	::	PERCENT DUCT :	OCCURE SRLR :	
SFC-800 260.00 367.15 800-1000 286.06 389.66			:-410.81 :-201.58	-99.37 -91.66	-50.00 -58.33	229.16	709.04	::	11.3	12.9	68.4
1000-1500 (252.41 348.72			:-333.31		-62.50	-37.50	-16.66	- ; ;	13.7	15.9	0.4
1800-2000 (248.80 332.16			-348.82		-64.58	-39.58	-16.66	. :	20.4	27.8	
2000-2500 244.80 314.69			-353.96		-68.75	-35.41	16.68		20.9	30.6	
2500-3000 :240.30 300.80			:-273.41		-60.41	-23.30	33.33	: :	11.7 :	24.8	4.9
3000-3500 236.30 288.54			-236.83		-52.08	-18.75	54.87	1.1	2.9:	11.1 :	
3500-4000 :232.77 279.86			:-183.33	-83.33	-47.91	-12.50	86.12	: :	3.4:	6.8	7.9
+000-4500 :228.27 274.25			-167.31	-72.91	-45.63	-2.08	80.46	: :	2.5	4.5	10.2
4500-8000 1226.02 266.50			-201.62	-79.18	-43.75	-4.17	92.48	4 :	5.0	11.0	14.8
5000-8000 1220.50 253.80	280.75 296.69	307.38	:-162.50	-05.41	-41.88	-16.66	51.64	11	4.9	11.1 :	10.7
8000-7000 (213.60 239.40	287.75 282.75	292.06	:-158.71	-72.91	-39.58	-16.66	64.09	1.1	4.7	8.1:	9.2
7000-8000 1207.20 228.10	254.80 270.69	279.38	1-160.02	-73.30	-37.80	-14.58	59.96	::	4.9	11.9 :	
8000-9000 1200.70 213.90	240.90 259.99	267.19	1-163.28	-66.66	-36.59	-10.03	39.97	: 1	5.3	9.6:	
9000-10000 :194.44 203.50	228.60 246.60	255.50	:-160.02	-66.66	-33.33	-10.03	45.18	::	4.4	8.7:	9.5
10000-11000 :188.30 188.00	218.20 235.40	244.60	:-169.30	-73.30	-29.55	-13.28	39.97		6.4	10.3	10.7
11000-12000 :182.20 187.52	2 204.40 224.50	232.81	1-128.95	-50.00	-26.69	~13.28	36.71	::	3.3	5.2 :	
12000-13000 :178.64 180.80	195,20 214.50	221.80	:-119.92	-43.38	-23.30	-10.03	26.69	: .	1.8	4.8	8.5
13000-14000 1170.90 174.30	185.90 205.50	212.10	:-116.86	-43.36	-23.30	-10.03	26.69	1.5	2.2	6.0:	10.9
14000-15000 165.50 168.30	177.20 196.90	202.80	; -99.31	-43.38	-20.05	-13.28	33.33	::	1.3	3.8	8.6
15000-16000 :160.40 182.6	1 169.60 188.70	194.48	-98.61	-38.71	-20.05	-13.28	23.30	: 1	1.2	3.7	6.0
16000-17000 :158.30 187.30		186.99	-83.98	-34.06	-19.92	-12.50	36.01	1 1	0.6	2.5:	7.3
17000-16000 150.40 151.90	156.40 173.17	178.50	1 -80.00	-30.00	-18.04	-13.98	12.03	::	0.7 :	1.9	5.1:
18000-19000 :144.90 148.20		171.30	-72.05	-27.98	-18.01	-11.95	14.08	1.1	0.9 :	1.3:	7.6
19000-20000 :140.20 141.50	144.80 157.45	163.20	: -53.98	-26.01	-16.01	-12.03	7.68	::	0.1 :	0.6	4.2 :
20000-21000 :135,70 136,90	140.05 150.80	156.08	-48.04	-23.90	-16.01	-12.03	3.98	-++	0.3	0.6	3 6
21000-22000 :131.40 132.40		149.58	: -42.03	-22.03	-15.94	-12.03	1.86	1:	0.0:	0.0 :	2.7
22000-23000 :127.11 128.10		143.38	1 -36.01	-20.00	-13.98	-11.95	0.00	1:	0.0 :	0.1 :	2.2
23000-24000 :122.50 123.50		137.20	-32.03	-18.04	-13.98	-11.95	-3.98	1.	0.0 :	0.3	1.6:
24000-25000 118.50 119.40	121.80 127.40	131.10	: -30.00	-10.04	-13.98	-11.95	-3.98	11	0.1	0.0	1.9:
25000-28000 :114.60 115.50	117.80 122.30	125.70	: -27.98	-17.96	-13.98	-11.95	-5.94	-11	0.0:	0.0:	1.1
28000-27000 :110.90 111.80	114.00 117.50	120.80	: -22.03	-18.01	-12.03	-11.95	-3.98	: :	0.0 :	0.0 :	0.6 :
27000-26000 : 106.70 107.70	110.00 113.04	118.70	1 -21.85	-14.08	-12.03	-10.00	-6.02	1:	0.0 :	0.0	0.8 :
28000-28000 (103.20 104.10	108.10 108.50	110.80	: -17.90	-13.98	-11.95	-10.00	-7.97	1.3	0.0 ;	0.0	0.2 :
29000-30000 99.90 100.00	102.60 104.70	108.80	: -18.01	-13.98	-11.95	-10.00	-7.97	1 (0.0	0.0	
30000-31000 : \$6.70 97.60	99.30 101.10	102.70	: -18.01	-12.03	-10.00	-10.00	-7.97	11	0.0 :	0.0	
31000-32000 : 83.50 84.46	96.00 97.60	99.10	: -17.96	-12.03	-10.00	-10.00	-6.02	1:	0.0:	0.0	
32000-33000 : \$0.00 90.90	92.50 94.20	95.30	-13.98	-12.03	-10.00	-10.00	-7.97	: ;	0.0 :	0.0	0.3 :
33000-34000 : 87.00 87.80	99.20 90.60	91.40	-18.C1	-11.95	-10.00	-10.00	-7.97	1.1	0.0 :	0.0 :	
34000-38000 : 88.00 88.60	86.60 87.60	88.30	-28.01	-12.03	-10.00	-8.05	-7.97	; ;	0.0 :	0.0	0.0:

0000Z

HOT PT MSL	; : 1%	N PERC	ENTILES SOX	90%	99%	: : 1%	DND	H PERCEN	TILES 90%	99%	::	PERCENT DUCT :	OCCURR SRLR :	ENCE :
\$PC-900 900-1000	1269.54	368.06 360.88	381.19 374.69	391.87	394.35	:-218.75 :-139.58	-89.56 -63.33	-47.91 -80.41	197.91	468.75 -10.75	11	6.3:	11.9:	0.4 :
1000-1500 1500-2000 2000-2500	:252.80 :248.10 :248.10	352.37 342.00 330.88	385.44 386.06 348.86	375.37 365.75 356.19	372.25	:-147.88 :-179.04 :-174.88	-03.33 -86.96 -05.83	-80.41 -80.41 -80.41	-39.58 -43.75 -43.75	-18.75 -20.05 -19.82	1:	1.5 : 2.8 : 2.8 :	5.6 : 8.9 : 11.1 :	G.4 :
2500-3000 2000-3500 3500-4000	1241.09 1236.92 1233.10	317.25 304.78 293.50	335.75 324.69 315.19	344.50 336.69 326.00	343.96	:-229.16 !-239.35 !-262.64	-100.00	-60.41 -56.25 -54.16	-39.58 -33.33 -22.81	6.25 27.08 47.58	::	5.4 : 7.3 : 7.9 :	11.4 11.6 . 11.4 .	1.5 3.2 6.4
4000-4800 4800-8000	1229.73	283.50 275.85	306.38	320.19 312.56	328.05	1-268.36	-95.63 -95.63	-50.00	-10.42	68.41 121.68	11	9.3	9.7	10.4
5000-6000 6000-7000	:220.30 :214.00	201.25 245.10	286.19 272.38	301.19		:-211.64 :-198.83	-97.91 -87.50	-45.83 -43.75	-8.25 -2.08	60.41 56.25	::	9.8 :	18.1 :	
7000-8000 8000-8000 8000-10000	1207.46 1200.94 1194.66	229.90 215.30 203.30	259.25 244.00 230.70	274.00 280.58 247.80	268.25	1-200.00 1-186.59 1-156.70	- 89.58 -76.97 -63.41	-43.23 -39.58 -33.33	-12.50 -16.88 -10.03	78.85 33.33 43.29	::	7.3 : 6.6 : 3.9	14.9 : 13.1 : 8.9 :	12.7 : 8.0 : 9.1 :
10000-11000		195.50	210.05	236.80		:-163.33 :-150.00	-69.82 -53.38	-29.88	-13.20 -10.03	43.36	11	6.7	11.0	12.3
12000-13000 13000-14000 14000-15000	171.10	181.20 174.50 168.40	194.80 188.10 177.40	215.20 208.00 197.00	212.30	:-146.61 :-116.66 :-130.06	-43.36 -39.97 -40.10	-23.30 -23.30 -20.05	-10.03 -10.03 -10.03	33.33 39.97 23.30	11	4.3 : 2.8 : 3.2 :	5.4 : 5.3 6.0 :	10.6 : 11.5 : 9.5
18000-18000	:155.56	162.80 157.40	189.40	188.60	188.70	:-100.04	-39.97 -33.96	-20.05 -18.04	-13.28 -13.98	20.09	::	1.0:	4.7 :	7.8
17000-18000 18000-18000 18000-20000	1144.60	182.00 148.30 141.40	156.00 150.40 144.70	172.30 184.20 188.40	170.40	-73.98 -72.03 -53.98	-30.00 -27.98 -26.01	-17.96 -18.01 -16.01	-12.03 -12.03 -13.98	13.96 18.01 5.94	11	1.0 : 0.6 : 0.1 :	1.0:	5.7 6.9 3.0 ;
20000-21000		136.60	139.90	149.00		-40.00	~23.98 -21.96	-16.01 -15.94	-13.98 -12.03	-1.95	- • • : : : ;	0.0	0.1:	
22000-23000 23000-24000 24000-26000	122.00	128.00 123.40 118.30	130.70 128.20 121.70	137.80 132.10 126.70	130.60	: -37.96 : -29.76 : -30.00	-20.00 -18.04 -17.96	-13.90 -13.90 -13.98	-12.03 -11.95 -11.95	-3.98 -3.98 -1.98	::	0.0 1	0.3 0.1 6.1	1.3 1.2 2.2
25000-26000 26000-27000	:114.20	115.40	117.65	121.80	125.20	-23.88	-16.01 -16.01	-13.98 -12.03	-11.95	-6.62 -7.97	- + +	0.0:	0.0	0.3
27000-28000 28000-28000 28000-80000	102.70	107.50 104.00 100.60	109.80 105.90 102.40	112.70 100.30 104.40	110.40	: -20.00 : -17.96 : -16.01	-14.00 -13.00 -13.00	-12.03 -12.03 -11.95	-10.00 -10.00 -10.00	-6.02 -8.05 -7.97	11	0.0	0.0 0.0	0.1 0
30000-31000	: 96.30 : *2.91	97,40 94,20	99.10	100.90	102.30	: -15.94	-12.03 -12.03	-10.00	-10.00	-7,97 -7,97	- • •	0.0	0.0	0.1
32000-33000 33000-34000 34000-35000	1 89.40 1 88.41 1 84.08	90,70 87.70 85.80	92.30 89.00 88.50	94.00 90.40 87.50	91.30	: -13.98 : -13.98 : -23.98	-12.03 -11.85 -11.85	-10.00 -10.00 -10.00	-10.00 -8.05 -7.97	-7.97 -7.97 -7.97	: :	0.0	0.0	0.0

1200Z FIGURE B-13-4-C B-221

HATO/CURACO

DRY-WET TRANSITION

THICKNESS STATISTICS

BASE	,		DUCT	S MCENTIL			ERLA	S RCENTIL	.EU			NORMA THK PE	L RCENTI	LES :		SUB THE PE	RCENTIL	.63
FT MEL	i	XFRQ	198	50%	90%	XFRO	10%	30%	90%	1	KFRO	10%	50X	90% (KFRO	1:5%	50%	₹¢%
8FC-500	1	11.3	54	118	217	12.7	49	116	1101	;	74.0	487	1791	3477 8 i	60.4	92	110	217
500-1000	;	3. 9	98	492	915 :	5.9	98	787	1476	i	3.4	98	394	16024 :	0.4	*8	197	394
1000-1500	٠	10.5	295	492	664 :	7.5	70	472	1319	ł	4.9	275	&004	33892 :	0.1		984	984
1500-2000		13.2	207	492	489 ;	18	76	295	1181	:	11.4	394	9033	33499 :	0.7	295	591	884
2000-2500	;	10.1	197	394	787 ;	17,2	96	295	784	ŧ .	18.3	78	5807	12908	2.1	96	492	1831
28Q0=3000	:	4.9	295	492	807 :	10.1	98	295	1073		20.9	492	4036	19576 (3.4	295	489	1201
3000-3500	ţ	2.5	177	394	748 :	3.9	98	244	817	:	12.2	90	2054	31727 :	3, 1	394	1280	1672
2500-4000	:	1.6	128	244	591 1	3.1	99	197	984	ŧ	7.4	48	1474	31411	3.9	99	984	1226
4000-4500	:	1.2	98	541	489 :	2.8	197	492	1378	1	4.0	98	295	7775 1	4.7	46	591	787
4500-5000	;	4.1	187	295	400	8.3	98	394	266	1_	12.2	78	3394	30349	6. 1	197	591	1575
3000-4000	• • •	1.9	234	295	453 1	5.5	78	442	787	;	15.9	78	3939	29957	5.5	18	-87	1673
6000-7000	1	4.0	98	295	492 :	4.2	78	443	489	i	10.2	78	3248	28404 1	4.4	78	294	1476
7000-8000		3.4	90	295	541 :	9.2	99	394	489		12.4	78	3051	27780 !	4.7	157	*B 9	1911
9000-9000	i	4.4	46	244	501 :	4. 5	78	394	687	1	13.2	78	るやしい	26904	7.0	78	541	1772
9000-10000	i	2.7	98	197	394 :	4.7	99	295	394	:	10.0	98	5020	25821 :	5.0	96	394	964
0000-11000	*-	5.8	98	197	394 ;	9.7	98	295	581	-	19.5	98	6463	24935 :	6,1	99	492	1526
1000-12000		3.1	98	197	394 ;	4.5	98	197	794	:	9.2	98	4626	21852 :	4.9	98	684	1580
2000-12000		1.6	98	197	295	4.6	98	245	394	:	8.5	48	6246	22471	5.4	98	F86	1378
2000-14000		1.9	98	197	254 1	5.4	98	197	394	;	10.3	98	6529	21487 :	7.3	78	492	1476
4000-15000		1.3	96	197	295	2.9	98	197	394	•	9.4	450	20014	20801	3.*	177	687	1220
5000-14000	-+-	1.0	98	70	197 ;	3.6	98	197	394	7	5.7	78	2723	19718	3.6	78	541	1104
±000~17000		9.6	164	164	144	2.1	131	164	228	,	7.1	187	10209	18921 :	5.4	164	454	1074
7000-18000	- 1	0.7	144	144	229	1.9	144	144	228	ì	5.7	212	17225	17881	2.0	328	492	1148
2000-19000	,	0.7	164	164	144 :	1.3	164	144	492	ŧ	7.1	984	15912	16733	6.4	144	492	902
9000-20000	•	0.1	164	164	164	0.6	164	164	328		4.5	2625	15174	15748 :	2.5	164	328	920

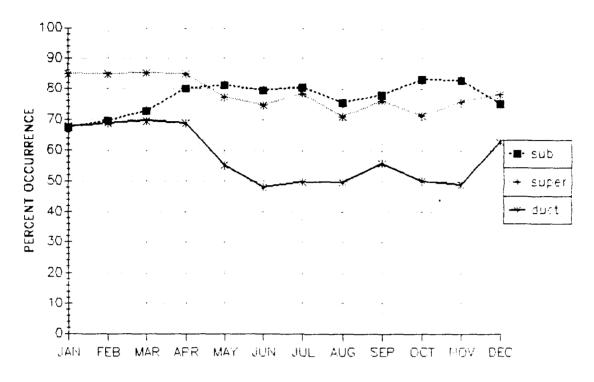
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BASE . YEED			DUCT	S RCENTIL	ES ;		SRLI THK PI	S ERCENT I	.66	;		NORM	AL ERCENT I	LES :		SUB THP. PI	ERCENTI	LES
FT MS. :	7	FRQ	16%	30%	90%	XFRO	16%	50%	90%		KERO	10%	50%	90%	XFAG	104	SOX	96%
SFC-500			104	118	551	11.9	98	110	1525	•	94.5	1378	4626	34877 1	49.0	110	167	217
500-1000		0.0			;	٠. ن	492	1003	1476	ı	1.A	78	10729	34581	0.1	2754	2754	2754
1000-1500		1.3	9.0	394	591 4	2.3	295	689	1142	i	1.8	758	8022	34030 (0.3	374	394	394
1500~2000		2.0	90	492	689 :	5.3	78	489	1378	ŧ	2.9	128	2120	33547 1	0.3	394	1022	1673
2000-2500		1.4	295	492	965	5.7	99	394	1161		5.6	98	2559	21490	0.4	275	394	797
2500-3000		4.4	197	492	787	5.7	98	443	1073	;	5.6	- 98	2608	32317	1.0	295	591	1870
2000-2500		4.4	100	394	69	6.9	98	492	086		4 - 1	335	2756	12737 : 31235 :	2.3	472	689	2165
7500-4000		3.0	197	394	73 8 :	6.0 3.9	48 78	197 394	984 747		g. 9	98 98	1570	11801	5. 0	234	784 571	1024
4000-4500 1		3.2	157	492 275	687	12.0	78	374	886	•	15.7	78	2458	30250 I	7.2	197	492	1575
4500-5000 :			70 	473						·-								
5000-4000		5. 1	157	394	591 :	10.2	78	374	787		21.6	70	3002	29344 1	0.3	78	487	1949
6000-7000 I		4.1	78	374	561 :	30.0	78	492	20.	ı	10.0	70	3344	26226	7.4	78	487	1270
7000-8000 1		5.2	76	295	591	11.1	78	344	787		17.2	78	2824	27691 1	5.5	**	591	1703
8000-9000 ::		5.5	197	294	492 1	B. 7	9 🖺	295	591	1	15.2	197	2210	26905 1	4.4	78	492	1654
4000-10000		2.3	98	295	423 :	5.0	79	295	492	1	4.5	98	4232	25544	4.6	76	391	784
10000-11000		6.3	98	197	394 .	10.5	78	295	591	;-	18.2	256	6234	24935	7.0	98	391	1370
1000-12000		4.5	96	197	274	2.5	. 98	197	492	ì	11.7	98	2790	23852	7.0	70	487	1742
2000-13000		3.7	98	197	135	5.0	70	197	394	;	11.1	98	2805	22770	6.3	96	489	1476
2000-14000		2.3	99	197	295	4.8	. 48	197	295	:	12.0	70	3773	21915		98	394	1334
14000-15000	•	5. 1	98	197	295 .	5.7	71	197	394	i	9. 7	110	10761	20781	3.3	78	487	1270
15000-14000	•	1.5	98	197	295	4.0	78	70	295		10.3	70	14224	19817	3.8	**	394	1244
14000-17000		1.9	121	144	279	2.1	110	144	190		5.6	82 0	19045	19832	2.0	105	550	1835
17000-18000		1.0	104	144	144	2.1	164	144	120	i	5. 1	1411	17228	17717	3.7	164	220	1378
1 BOOO - 1 BOOO .	•	0.6	144	104	164	1.0	104	164	164	i	6.1	1949	16076	16733	4.6	164	492	020
14000-14000		9.1	144	104	164	0.0	• • •			1	2.1	410	15010	15502	2.1	242	454	984

1200Z

FIGURE B-13-4-D B-222 HATO/CURACO MONTHLY

AP PERCENT OCCURRENCE FREQUENCY



0000Z

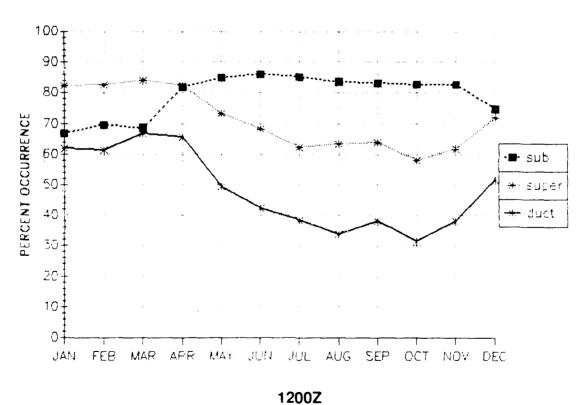
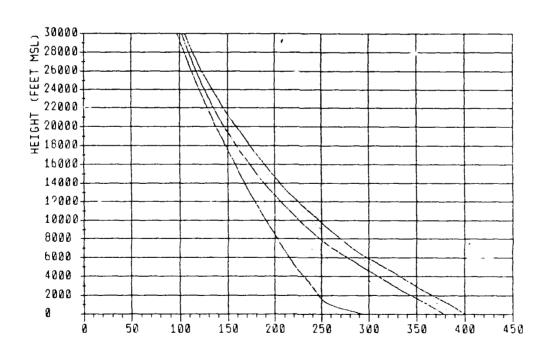


FIGURE 8-13-5 B-223

NO DATA AVAILABLE

N (N-Units) 0000Z



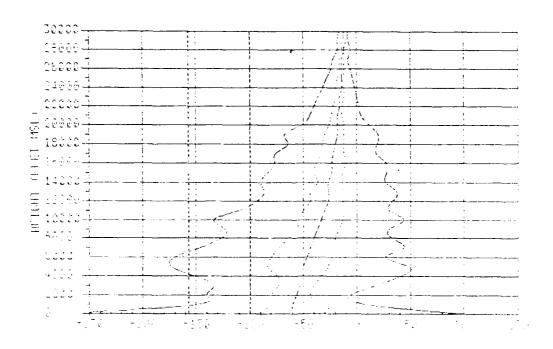
N (N-Units) 1200Z

FIGURE B-14-1-A B-224

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-14-1-B B-225

NO DATA AVAILABLE

0000Z

EGT FT MSL	: : 1%	N PERC	ENTILES 50%	90%	98%	; ; 1%	DND 10%	H PERCEN	TILES SON	99%	1:	PERCENT DUCT :	OCCURRE	ENCE :
SFC-900 900-1000	:259.75 :254.80	371.37 359.56	385.25 275.10	394.08 395.75		:-356.15 :-137.50		-58.33 -58.33	16.66 -27.09	150.70	11	16.6 :	21.4 :	28.8 3.0
1000-1500 1500-2000	1250.80	351.06 342.00	387.08 358.25	377.08 368.88		:-158.25 :-147.9		-56.33 -60.41	-30.07 -37.80	16.66	;;	1.5 :	4.2 1 6.7 1	2.6
2000-2500 2500-3000	:243.63 :239.73	332.38 322.19	349.19 339.00	359.08 349.26	369.17	:-150.00 :-136.26	-61.25	-60.41 -56.25	-43.75 -43.75	-10.42 0.00	11	1.7	5.6	0.8 :
3000-3500	: 239.05	312.69	329.56	339.38	349.53	:-133.33	-75.00	-58.25	-39.38	14.58	1:	1.2:	4.6 :	2.6
3500-4000 4000-4500	1232.47	304.15 295.75	321.06 312.94	330.88 322.89		:-127.06		-54.16 -50.00	-38.41 -31.25	22.91 39.58	1:	0.9:	4.4	2.9 :
4500-5000	:229.70	287.56	305.19	315.19	326.69	:-191.04	-81.25	-50.00	-27.08	50.00	11	4.8 :	0.9	7.0
5000-6000	1219.10	272.06	292.05	304.25		1-166.32		-50.00	-28.69	38.98		5.0	9.3	7.5
6000-7000 7000-8000	:212.43	252.70 238.70	278.06 261.00	288.06 274.25		:-165.96 :-146.27		-46.74 -43.75	-26.69 -23.30	25.00 43.36	11	4.4 :	11.6	9.5
8000-9000 9000-10000	1199.39	223.20	246.80	247.60		:-128.65		-39.97 -36.59	-19.92 -16.66	38.71 29.95	1:	2.3 :	8.2 :	9.2 : 7.6 :
	- •					+					-++			:
10000-11000		203.10 195.60	223.60 213.40	236.30 225.30		-129.9		-30.07 -29.95	-13.41 -13.41	39.97 30.07	;;	3.2 :	5.6 : 4.3 :	11.0:
12000-13000		187.91	204.30	218.40		-95.93		-26.69	-13.28 -13.41	36.59 33.33	11	0.6:	3.2 :	10.4
14000-15000		174.00	188.20	197.70		-89.91		-23.44	-13.28	26.69	: ;	1.3	3.0 :	10.0
15000-16000		167.60	178.30	189.80		79.9	-30.87	-23.30	-13.28	28.49	11	0.9:	1.9 ;	10.6
		191.80	171.20	182.00		-75.91		-22.03 -20.00	-12.03 -12.03	25.00	11	0.3 :	0.9	9.7 :
18000-19000	1144.04	149.60	198.90	144.40	171.10	-70.00	-31.95	-20.00	-12.03	20.00	11	1.4 :	1.3	9.9
19000-20000	- •	144.40	149.80	156.60	163.20			-18.04	-12.03	12.03	-++	0.1 1	0.3:	6.3 :
20000-21000	134.60	139.50 134.70	144.10	152.00 145.70	156.19	-52.01		-17.96 -16.01	-13.86 -13.98	10.00	11	0.1:	0.4 :	8.1 : 4.0 :
22000-23000	:125.19	130.20	133.00	139.60	143.50	-38.04	-21.95	-16.01	-12.03	2.03	::	0.0:	0.1:	3.5
	:120.34	125.10	128.50	133.60 128.00		-30.76		-15.94 -13.98	-12.03 -11.95	-1.95 -2.03	11	0.1 :	0.1 :	2.4
25000-26000	:111.61	118.70	119.30	122.80	127.70	1 -26.01	-17.96	-13.98	-11.95	-5.09	-++	0.0 :	0.1	1.1
20000-27000	:107.80	112.80	115.10	118.00	120.80	-44.5	1 -19.01	-13.98	-11.95	-7.97	11	0.0 (0.0 :	0.6
27000-28000 28000-28000	: 103.74 : 99.92	108.50 104.60	110.80 106.70	113.40	115.60	-10.00		-12.03	-11.95 -10.00	-8.02 -7.97	: ;	0.0 :	0.0 1	0.4
29000-30000	: 96.40	101.30	103.10	104.90	106.40	: -16.0	-13.00	-12.03	-10.00	-7.97	11	0.0:	0.0	· · · · · · · · · · · · · · · · · · ·
30000-31000	92.70	98.00	99.80	101.30	102.57	-18.0		-11.88	-10.00	-7.97	11	0.0	0.0	0.1
31000-32000 32000-33000	99.30	94.50 90.90	96.10 92.60	97.80 94.20	95.30	-33.90	-12.03	-10.00 -10.00	-10.00 -10.00	-7.97 -7.97	::	0.1 :	0.0:	0.8
33000-34000	: 82.98 : 80.79	87.80 85.70	89.20 88.60	90.50 87.60		-20.00		-10.00	-10.00	-7.97 -7.97	::	0.0	0.0	0.0

1200Z FIGURE B-14-1-C B-226

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

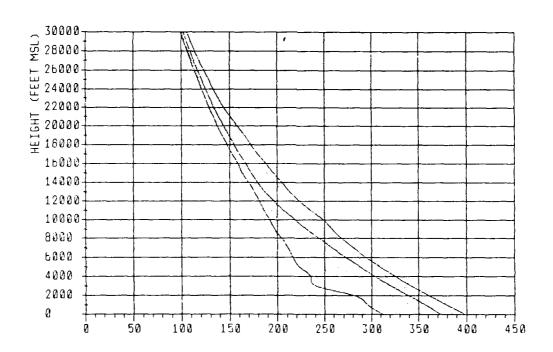
BASE			DUCT	S RCENTIL	-c		SALF	RS ERCENTI	. EG .		NORM THE F	AL ERCENTI			SUB THE PE	ERCENT :	ere.
FT MBL	•	%FRQ	10%	50%	90%	አ ድድ ው	10%	50%	90%	WERD	105	50%	90%	%FRQ	17.	الحاد	9.%
SFC-500		16.8	190	289	295	21.4	78	289	387 :	97.0	1476	8655	35:71	-6,6		289	387
300-1000		0.4	98	295	492 .	0.9	98	197	1014 .	2.7	98	3593	14184	1,2	မရ	794	724
1000-1500	1	1.0	226	492	965 .	3.2	98	591	1101	2.5	98	5659	4 161	1.1	.78	295	686
1500-2000	4	1.1	197	295	551	3.9	98	541	1191	5. 1	157	2927	33400	0.3	295	394	liāi
2000-2500	1	1.0	128	295	896	2.4	98	295	1081 .	3.9	52	2854	2:81:	0.6	295	567	225.4
2500-3000	;	0.7	197	295	689	2.8	98	492	1083	7.4	9∂	53:5	72617	. 9	515	~ a~	2:46
3000-3500		0.9	118	295	591	2.4	98	492	1000	2.9	ÝΘ	.772	3:825	1.6	96	394	:078
3500-4000		9.5	98	344	986	1.9	128	492	886	3.6	98	2658	01057 .	1.1	276	689	1240
4000-4500		1.1	138	394	591	2.4	98	492	1181	7.1	9 5	767	676	2.7	295	491	6 ∃ 1
4500-5000	:	4.1)	98	295	502	7.1	98	197	905	9.8	7 8	5315	ರಣ್ಣದಲ್ಲಿ	4.5	: _8	754	1053
5000-6000	-	2.9	197	295	430	5.9	98	246	787 .	12.2	98	ತಿಂ ತ್ರ ು	29601	4.2	98	295	1982
6000-7000	:	3.3	98	295	482	9.6	98	295	787	11.5	98	40.06	28577	4.7	မှမ	794	₩
7000-8000	:	2.9	98	295	394	6.5	98	295	787	11.6	98	3937	27591 :	5.3	197	794	:::9
8000-9000		2.1	98	197	394	4.5	9 0	295	591	11.2	5 8	7790	1651	6.4	96	. 94	
9000-10000	:	1.5	197	295	394	3.2	98	295	591	7.4	98	2264	25721	4	98	295	886
10000-11000		2.0	98	197	295	5.2	98	197		14.7	98	4527	24778 :	8.8	79	294	1014
11000-12000		1.5	98	197	394	3.9	98	197	492	8.1	98	3927	23656	6.5	1.08	394	: 80
12000-13000		0.6	98	197	197 .	2.7	98	197	394	9.5	98	3297	22577	7.1	913	24	784
13000-14000		1.2	98	98	295 .	2.7	98	146	295	7	7 ∂	2887	2168		چې	794	8**
14000-15000	;	1.3	98	99	236	2.a	98	148	295	9.2	98	2133	20653	7. 7	99	294	900
15000-16000	;	0.9	98	98	197	1.7	98	148	295 :	9.5	 98	3215	19620	7.7	98	574	820
16000-17000	:	0.3	164	164	164	1.5	98	164	344	8.6	718	4247	570	6.6	: 64	49	481
17000-18000	1	0.7	164	164	164	0.8	164	154	164	7.3	607	6808	17881	5.3	164	49.5	820
18000-19000		1.4	164	164	164	1.	164	164	328	10.4	050	15256	16560	ä. 4	: 64	718	656
19000-20000	,	0.1	164	164	164	0.3	164	164	164	5.7	820	14928	15748	4.7	154	49	920

1200Z

FIGURE B-14-1-D B-227

NO DATA AVAILABLE

N (N-Units) 0000Z



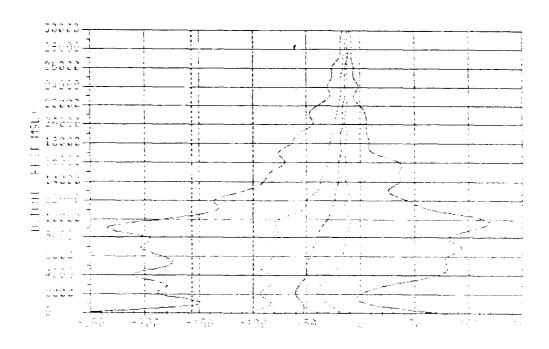
N (N-Units) 1200Z

FIGURE B-14-2-A B-228

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-units/KM) 1200Z

FIGURE B-14-2-B B-229

NO DATA AVAILABLE

0000Z

HGT FT MSL	1%	N FERC	ENTILES 50%	90%	99X	1	. %	DND	H PERCEN	TILES 90%	99×	1:	PERCENT DUCT !	OCCURRI	ENCE :
SFC-500 500-1000	:260.06 :255.90	356.00 346.87	369.49	380.89 371.00	388.89 380.72	1-110.	81	-68.75	-60.41 -43.78	-12.50 -16.66	106.37	: :	21.7 (33.1 :	11.0 ;
1000-1500 1500-2000	1252.18	339.78 331.80	353.75 346.69	364.06 356.95	373.58 385.24	:-188.	04	-70.83 -89.58	-45.83 -54.16	-18.75 -23.30	43.75 23.46	1 1	4.2	9.2	3.7 1
2500-3500 2500-3000	1244.78	319.50 308.25	337.56 326.38	348.06 337.90	356.25 348.01	1-177.	0.8	102.08 -97.91	-80.41 -88.33	-33.33 -30.41	-10.42 12.96	: :	4.7 :	14.1 :	1.7 :
3000-3500 3500-4000	237.10 233.67	294.72 285.19	316.19 307.06	327.50 319.00	338.69	1-200.	33	-89.58 -87.50	-56.25 -52.08	-29.16 -23.44	22.91 33.33	: :	2.5 t	8.0 :	3.2 ; 4.3 ;
4000-4500 4500-5000	:229.38 :225.67	276.06 267.37	298.75 291.50	311.19 304.06	319.31 313.00			-83.33 -87.50	-50.00 -47.91	-20.05 -16.66	53.33 81.87	; ;	3.2 (8.2 (8.2 : 13.5 :	11.4
8000-6000 6000-7000	:220.05	251.80	278.78	293.38	302.88			-96,35 -93,75	-45.83 -45.83	-16.66 -16.75	80.41	::	10.4	19.7	12.4
7000-8000	1208.80	223.60	242.55	265.38	275.06	1-284.	22	-96.61	-40.10	-18.66	80.98	1.1	14.4 1	17.8	10.2
8000-9000 8000-10000	:199.26 :192.77	213.40 204.90	226.20 213.50	251.80 238.80	262.38 251.43			-76.56 -56.64	-33.33 -30.07	-16.66 -13.41	76.60	11	10.7	7.9	9.0
10000-11000		197.70	203.30	228.00 213.58	240.18 228.99			-53.38 -43.36	-23.30 -23.30	-13.41 -16.60	59.34 30.06	::	5.1 : 2.7 :	8.2 :	10.4
12000-13000	:174.78	183.90	188.10	201.90	215.40	:-110.	02	-36.71	-23.30	-19.92	23.30	: 1	2.0 :	3.4	4.2
13000-14000		177.10	181.10 174.50	191.10	205.77	-80.		-33.33 -20.69	-20.05 -20.05	-16.66 -16.66	20.05	11	1.7 :	1.4	3.9
15000-16000		165.20 159.60	168.50	174.80	187.79	-60.		-28.56 -23.98	-19.92 -18.04	-16.66 -16.01	10.03	: 1	0.8	0.8	2.9
17000-18000		184.20	186.90	160.60	171.18	-42.	01	-21.98	-17.96	-15.94	-4.08	::	0.3	0.0	1.0
19000-20000		146.40 143.30	151.20	154.24	165.10	: -38. : -32.		-20.00 -10.04	-18.01 -16.01	-13.98 -15.94	-2.03 -8.05	1;	0.2 :	0.7 :	0.7
20000-21000		138.50	140.80	143.30	150.60	: -27. : -25.		-17.96 -18.01	-18.01 -18.94	-13.98 -13.98	-7.97 -11.95	11	0.0	0.0 :	1.4
22000-23000	120.75	129.60	131.60	133.60	136.40	: -22.	03	-18.01	-13.98	-13.98	-11.95	1.1	0.0 1	0.0 :	0.2 :
23000-24000 24000-25000		124.70 120.80	128.90 122.50	129.20	133.20 127.60	: -21.		-18.01 -18.94	-13.98 -13.98	-12.03 -11.98	-8.05 -6.02	1:	0.0 :	0.0 :	0.0
25000-26000		118.50 112.70	118.40	120.30 116.30	123.10	: -20. : -18.		-14.08 -14.08	-13.98 -12.03	-11.95 -11.95	-10.00	::	0.0 ;	0.0 :	0.2
27000-20000	99.15	108.40	110.30	112.20	114.10	-18.	17	-13.98	-12.03	-11.95	-10.00	1.1	0.0 1	0.0	0.5
28000-29000		104.80	100.40	104.40	109.57	: -16. : -15.		-12.03 -12.03	-12.03 -11.96	-10.00 -10.00	-10.00 -10.00	1:	0.0 1	0.0 :	0.0
30000-31000 31000-32000		98.00 94.70	99.60	101.00	102.30	: -16. : -22.		-12.03 -12.03	-10.00	-10.00	-7.87 -7.97	11	0.0 :	0.0 ;	0.0
32000-33000	: 81.79	91.10 87.90	92.70	94.30	95.30	: -14.	06	-12.03	-10.00	~10.00	-7.97	; ;	0.0:	0.0:	C.O :
33000-34000 34000-35000		85.70	89.30 86.70	87.60	91.50 88.30	1 -20.		-12.03 -11.95	-10.00 -10.00	-10.00 -8.05	-7.97 -7.97	1 1	0.0 1	0.0 :	0.0

1200Z FIGURE B-14-2-C B-230

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

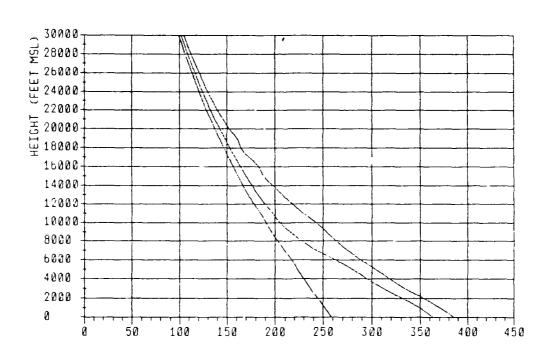
BASE			DUCT	S FCENTIL			SALA	S RCENTIL	**		NORM THI F	AL ERUENT:	. ee		SLE	POENTI.	
FT MBL	:	%FRQ	10%	50%	90%	%FRO	10%	50%	90%:	XFRO	10%	Sc%	90%	%FRC	:0%	207	90%
SFC-500	;	24.3	93	289	397 :	34,3	96	289	187	97.3	1378	609B	34975	15.6	: 70	299	 -2⊹
500-1000		Ú. 7	197	295	295	1.2	98	98	591	3.2	96	2608	34286		~ E	_ e =	: • 7 :
1000-1500	1	0.5	197	344	492	2.4	98	492	1270 .	5.4	98	2461	17684	1.5	99	:07	295
1500~2000		2.2	98	394	689	6.8	우늄	391	1467	2.7	98	3.051	27901	0.5	1 7	-46	195
2000-2500	:	1.9	98	295	591	5.1	98	492	1161	5.0	295	2658	12106	0.7	197	295	್ಷ ಇತ
2500-3000	1	1.9	197	394	689	3.9	98	689	1.201	7.8	1014	2854	10217	1. 🖺	نے ب	. 44	500
1000-3500	:	1.2	197	394	689	3.2	90	394	866	2.9	98	1870	20519	1.7	197	: 77	1577
J500-4000	;	2.4	207	295	482	3.6	99	497	827 .	6.3	우습	1723	2:33:	E. 7	295	: 44	11-2
4000-4500	1	1.5.	295	443	787 .	3.6	98	492	728 .	4.9	\Rightarrow 님	1181	8622	:. ≎	200	291	ai?
4500-5000	÷	5.5	128	295	455	10.5	98	295	886	11.3	748	2756	· o .	6.3	96	7.44	: -5 1
5000-6000	•-	3.9	167	295	620	10.4	96	295	787	20.3	9a	_4.1	29758	5.2	197	794	'p
6000-7000		3.9	98	344	591 .	9.2	78	794	787	12.8	98	2:16	26538	7.2	197	5 = 4	~ ·
7000-8000		7.0	197	295	394	11.4	98	295	787	.8.6	96	1361	_ / 7 . ;	5	96	4	: _ ±>
8000-9000	:	9.8	167	295	492	13.2	96	295	492 .	21.2	78	1427	.67:3	သ္. ခွဲ	>⊕	591	2517
9000-10000	:	7.3	98	197	394	11.5	98	197	49.	16.9	98	2854	20811	12.7	ç-E-	491	
10000-11000		7.5	98	197	394	9.6	98	197	591	25.2	98	3445	24975	10.6	96	394	a.
11000-12000		2.7	98	197	374 .	5. ⁷	78	197	492 .	13.3	68	1907	ユコ56 7	7.9	197	794	965
12000-13000		2.7	우음	2 % /	394	4.9	98	197	364	11.3	99	5297	11473	8.9	÷⊕	2-:	119.
13000-14000		2.0	98	197	295	4.5	98	197	394 .	12.1	96	4692	2:598	5.9	≂હ	794	: 200
14000-15000	1	1.0	98	148	197	1.7	96	99	197	9.5	100	5513	20574	6. (98	492	' # '
15000-16000		1.0	98	98	295	1.2	98	98	295	8.0	137	2625	19600	7.5	98	194	.
16000-17000		0.2	131	131	131	1.5	98	164	492 :	7.5	846	14600	18537	5. 3	180	492	438
17000-18000	:	1.5	164	164	329 :	Ų. ⊖	164	164	164	5.3	476	648	17668	3.5	10.	4 -	11.3
18000-19000		1.0	164	164	164	1.3	164	164	164 .	7.0	492	16076	16755	5. 3	164	729	475
19000-20000	:	0.3	164	164	164	0.0				3. 3	689	14928	15617	ž. :	164	656	-

1200Z

FIGURE B-14-2-D B-231

NO DATA AVAILABLE

N (N-Units) 0000Z



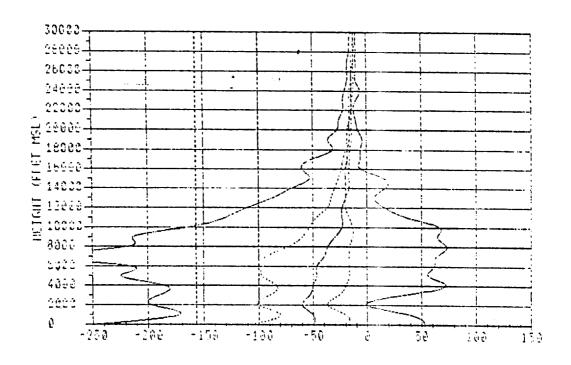
N (N-Units) 1200Z

FIGURE B-14-3-A B-232

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM)1200Z

FIGURE B-14-3-B B-233

NO DATA AVAILABLE

0000Z

HOT FT MSL	1%	N FERCI	entiles xoe	90%	99 x	: ! 1%	10% DND	H PERCEN NOT	TILES 90%	99%	1;	PERCENT DUCT :	OCCURR SRLR :	ENCE :
SFC-500 500-1000 1006-1500 1500-2000 2300-2500 2500-3000 3000-3500 3000-4000 4000-4500	1326.73 257.03 253.35 249.66 245.90 242.17 238.46 235.52	364.91 363.76 348.50 338.31 327.77 318.01 305.28 295.37 287.25	379,19 360.60 361.50 354.00 344.66 334.25 324.13 315.50 307.19	389.37 380.38 372.69 364.69 309.37 345.24 333.19 328.56 316.69	394.36 392.46 373.06 362.78 353.38 342.25 334.82	:-323.45 :-125.92 :-128.00 :-186.25 :-200.00 :-170.83 :-172.00 -180.00 :-188.16	-186.86 -75.00 -75.00 -87.50 -97.91 -87.50 -63.33 -83.33	-80.41 -52.08 -52.08 -58.25 -80.41 -59.33 -54.25 -54.16 -50.00	-8.25 -22.91 -25.00 -31.25 -39.58 -39.58 -37.50 -33.33 -25.00	143.54 22.32 23.63 5.10 -16.66 0,00 7.09 33.33 70.83		24.3 : 1.5 : 0.7 : 2.4 : 3.2 : 2.9 : 1.9 : 3.6 : 2.7 :	34.3 : 3.6 : 3.6 : 11.7 : 9.5 : 7.0 : 6.3 : 6.1 :	15.8 4.1 3.9 2.2 1.5 1.9 2.2 3.4 7.1
4300-5000 5000-8000 8000-7000 7000-8000 8000-9000 9000-10000	:228.91 :222.18 :219.33 :210.20 :203.10 :195.40	278.75 263.00 245.00 229.00 217.30 208.90	300.19 286.88 271.89 257.88 243.30 228.50	311.19 299.87 264.59 272.25 259.06 246.70	308.04 292.25 280.04 287.18	;-218.86 ;-175.00 ;-179.50 ;-208.38 ;-203.38 ;-197.02	-89.58 -89.58 -79.85 -85.41 -80.08 -73.43	-80.00 -47.91 -43.75 -43.36 -39.56 -33.33	-22.91 -18.75 -16.66 -16.66 -13.26 -6.77	87.11 57.64 63.33 87.41 70.05 126.69	11	6.5 : 7.3 : 6.2 : 10.2 : 8.0 :	13.0 i 16.2 ; 11.1 ; 14.3 ; 16.8 ; 13.4 ;	10.3 : 13.6 : 12.1 : 12.3 : 13.2 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15.6 : 15
.1000-12000 .2000-17-000 .3000-14000 .4000-15000	*	199.00 191.90 195.00 177.90 171.70	216.70 204.60 194.40 185.20 177.20	235.20 223.20 213.00 203.40 194.30	232.03 220.45 210.70 201.56	(-179.85 (40.02 (-130.07 (-112.17 (-83.33	-73.30 -56.64 -50.00 -39.97 -33.33	-28.95 -28.56 -23.44 -23.30 -20.05	-10.03 -13.28 -13.28 -13.20 -13.41	69.96 87.80 43.36 23.39 46.74	11	7.8 3.4 2.7 2.0 1.0	11.0 7.4 3.9 4.7 2.7	18.7 12.6 11.8 10.1 9.0
.5000-16000 :6000-17000 .7000-16000 .8000-19000 .8000-20000	:161.20 :150.00 :150.39 :145.27 :140.20	165.80 180.20 154.67 148.60 143.50	170.70 184.70 158.40 152.60 148.70	189.80 179.40 172.10 163.90 156.30	193.39 185.50 177.21 170.20 181.75	-80.08 -70.00 -74.20 -63.98 -47.98	-33.33 -30.00 -28.04 -26.01 -24.06	-20.05 -19.92 -18.04 -17.98 -16.01	-13.41 -13.98 -13.98 -12.03 -13.99	30.07 27.97 6.23 11.95 6.02	1:	1.0 : 0.2 : 1.5 : 1.0 : 0.3 :	1.2 ; 1.5 ; c.8 ; 1.3 ; 0.0 ;	9.5 : 9.7 : 5.6 : 7.0 : 3.3 :
11000-22000 12000-23000 13000-24000 14000-25000	:132.00 :127.61 :123.20 :119.30	134.10 129.60 124.80 130.50	136.90 132.20 127.50 122.80	143.50 137.60 132.30 127.30	148.60 142.30 136.30 130.78	-42.03 -37.98 -31.95 -0.00	-22.03 -20.00 -18.04 -17.96	-16.01 -14.06 -13.98 -13.98	-12.03 -12.03 -11.95 -11.95	3.98 -1.97 -1.95 0.00	: : : : : : : : : : : : : : : : : : :	0.0	0.0	4.4 2.6: 3.1: 3.1:
16000-27000 17000-28000 18000-29000 19000-30000	:111.50 :107.40 :103.87	112.60 108.41 104.70 101.30	114.70 110.60 106.50 103.00	117 40 113.JO 108.50 104.70	120.70 115.80 111.00 106.70	-22.03 -18.04 -20.00 -16.01	-18.01 -14.06 -13.98 -13.98	-12.03 -12.03 -12.03 -11.95	-11.95 -11.95 -10.00 -10.00	-8.52 -7.97 -7.97 -7.97	: : : : : : : : : : : : : : : : : : :	0.0:	0.0 :	0.8 0.5 0.3 0.0
11300-32000 12000-33000 1300, 34000	93.60 90.11 . 87.10 84.73	94.80 91.10 87.90 85.70	96.20 92.70 69.30 46.70	97,80 94,30 90.60 67,60	99.22 95.50 91.60	1 -20.31 1 -14.05 1 -21.95 1 -23.98	-12.03 -12.03 -12.03 -12.03	-10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -8.09	-7.87 -8.02 -7.87 -7.87 -7.87	::	0.0 :	0.0	0.3 : 0.0 : 0.0 :

1200Z FIGURE B-14-3-C B-234

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

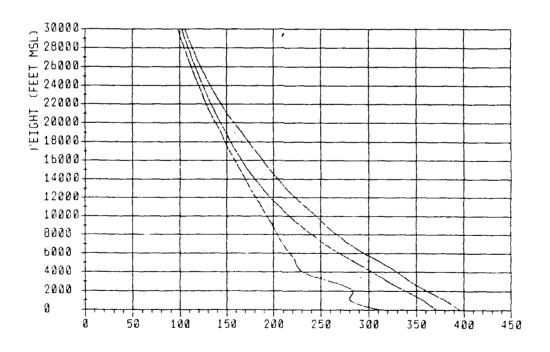
BASE			DUC*	S POENTIL	62		SRLF	S RCENTI			NOFM	AL ERCENTI			خال ف		
FT MOL		%FRQ	10%	50%	90%	MERG	15.5	30%	4 .%	%FRG	19%	ENCENT.	4.55,	WA AC	744 FE	HOEN'I. But.	-e>
SFC-500		21.7	90	299	387	33. 1	96	289	J87 .	98.3	:280	5019	24975	11	190	26"	
500-1000		0.3	294	394	394	0.5	98	591	787 .	1.7	98	1711	-0.97	1.5	48	78	509
1000-1500	1	1.0	98	443	591	2.0	99	497	1965	ق ي	98	1917		2	95	_ ~ =	53
1500-2000		3.7	157	344	591	7.9	98	591	984	5.4	177	2654	23459	1.5	1 3 7	: o =	704
2000-2500		2.3	197	492	775	7, 9	98	246	1004	7.9	98	1950	797_		96	394	1 60
2500-3000		1.0	118	295	787	6.5	98	492	974	7.5	55:	2262	14272		115	689	22.5
3000-3500		2.3	148	344	787 .	4.3	96	394	1043	6.	. b 4	1711	1756		íúg	344	မြင်ခ
3500-4000		3.0	197	295	. ننو	3.8	98	98	925	0.2	177	1870	6260	7.0	285	794	1191
4000~4500		1.5	98	394	497	5.2	98	394	689	5.7	98	2608	2079:	5. 2	157	684	
4500-5000	:	5.9	197	394	630	9.7	99	295	787	11.5	98	2412	10250	-, -	•	2.54	1014
5000-6000		6.5	197	295	591	15.9	98	394	-89	18.5	98	2264	29857	7.8	:87	294	1141
4000-7000	1	9.7	98	295	551	12.5	98	295	689	19.0	98	4971	28971	6.7	98	<u> </u>	
7000-8000	1	12.7	99	295	492 .	14.4	98	295	65 0	20.2	98	4921	27790	- 4	96	:94	1111
8000-9000		8.4	98	295	394	13.1	98	197	591	20.6	98	56:7	26904	~ . A	295	±	: : : :
4000-10000	:	4.7	187	295	492	5.7	98	197	492	11.6	217	25210	25719	5.2	99	492	896
10000-11000	- • -	4.9	98	197	394	7.9	98	197	492 :	15.5	98	12736	25034	7.4	98	241	1575
1000-12000	,	2.7	98	197	394	4.4	98	197	492	9.6	98	10804	23852		99	· Ý4	: 476
2000-13000	1	1.7	98	197	295	7.2	98	197	492	≝.2	98	60.52	22701	. 4	96	- 24	240
3000-14000	1	1.5	98	99	295	2	98	100	453	5.3	650	6480	21697	1.4	କ୍ଷ	- 44	10.75
14000~15000	_	0.7	98	148	197	1.2	98	197	394	5.9	138	20014	20850	2.9	:87	718	1000
5000-16000	;	0.5	78	98	197	6.7	98	197	295	2.9	394	19128	19817	1.2	98	794	9-71
6000-17000		0.0				0.2	164	246	7.26	1.5	164	182-19	18971	5.7	13:	410	6.
7000-18006	1	0.3	164	164	104	0.0				1.0	7218	17557	17881	6.9	164	528	154.
8000-19000		0.2	164	164	164	0.7	164	164	164	3.1	1312	15917	16404	₹.4	: 64	164	ويوا
9000-20000		9.9				9.2	164	164	164	0.5	104	15256	15420		104	-26	1712

1200Z

FIGURE B-14-3-D B-235

NO DATA AVAILABLE

N (N-Units) 0000Z



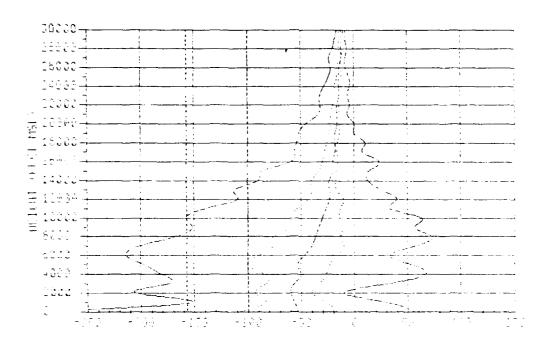
N (N-Units) 1200Z

FIGURE B-14-4-A B-236

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-14-4-B B-237

NO DATA AVAILABLE

0000Z

HGT FT MSL	15	N PERCENT	TILES TON BO	x 98%	1%	DND 10%	H PERCEN 90%	TILES 90%	99X	::	PERCENT	OCCURRE SRLR :	SUB
5FC-500 500-1000 1000-1500 1500-2000 2000-2500 2500-3000 5000-3500	;260.25 ;255.50 ;251.31 ;247.35 ;243.55 ;239.58 ;235.96	353.45 36 346.56 36 338.19 39 326.37 34 315.87 33	77.75 390.87.09 380.81.06 372.83.25 364 43.75 354 43.75 354	.06 381.58 .38 382.97 .00 373.38 .60 384.27 .75 354.13	-393.67 -134.25 -123.63 -177.06 -202.75 -200.00	3 -77.08 -81.25 -85.41 -89.58 -93.75	~60.41 ~47.91 ~52.06 ~58.33 ~80.41 ~58.33 ~56.25	-8.33 -18.66 -20.63 -33.33 -39.08 -39.09 -39.33	104.80 22.81 60.41 13.42 -18.86 -2.08 24.79	1:	24.8 (0.3 : 1.0 : 2.8 : 4.8 : 4.3 : 2.8 :	26.8 : 3.3 : 2.6 : 5.9 : 7.7 : 9.2 : 7.1 :	18.4 4.9 2.0 0.8 2.0
3500-4000 4000-4500 4500-5000	:232.59 :228.19 :223.55	265.05 36 276.61 26	18.00 326 06.75 316 99.06 311	.75 331.43 .56 325.92	-177.94 -171.7 -185.25	-83.33	-54.16 -80.00 -50.00	-29.16 -27.08 -23.30	33.33 06.66 63.33	;; ;; ;;	3.1 : 2.3 : 6.4 :	7.4 7.9 14.0	4.3 5.6: 10.7:
5000-6000 6000-7000 7000-6000 6000-9000 9000-10000	:218.15 :211.68 :205.88 :200.30 :194.04	240.80 20 228.20 20 216.40 20	94.88 300 98.08 284 93.80 270 39.20 257 25.80 245	.87 294.05 .75 279.78 .50 265.88	:-109.9 :-222.9 :-199.2 :-160.0 :-109.3	1 -86.59 7 -76.69 2 -73.30	-80.00 -40.83 -39.97 -36.71 -33.33	-23.30 -16.66 -10.42 -10.42 -10.03	43.50 35.00 53.38 79.68 49.35	::	7.4: 7.7: 7.4: 9.4: 4.6:	17.6: 14.6: 13.0: 13.6: 6.9:	10.2 : 11.5 : 13.8 : 14.5 : 11.7 :
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	:181.19 :178.20 :170.38	192.16 2: 165.30 1: 178.30 1:	14.20 234 04.00 222 94.70 212 08.40 204 77.70 195	.74 231.40 .80 220.20 .29 211.11	-160.0 -133.3 -113.4 -103.2 -93.3	3 -80.00 1 -40.10 7 -39.97	-26.69 -23.44 -23.30 -23.30 -23.30	-13.20 -13.20 -9.90 -16.66 -16.66	40.10 39.97 39.97 20.05 10.03	11	4.8 : 3.8 : 1.8 : 2.1 : 1.0 :	7.1 8.9 4.1 3.6 2.6	13.8 10.8 12.1 8.7 4.9
15000-15000 15000-17000 17000-18000 18000-19000 18000-20000	1154.75 1150.20 1144.81	180.30 1: 184.80 1: 148.70 1	70.95 186 84.80 179 58.40 171 52.50 183 46.70 155	.76 168.70 .40 178.46 .50 170.59	-73.73 -80.06 -58.66 -80.06	0 -27.96 0 -27.96 0 -25.93	-20.05 -20.00 -18.04 -17.96 -18.01	-18.66 -15.94 -10.94 -13.98 -14.06	16.68 19.04 9.32 6.02	::	1.3 0.5 0.0 0.0 0.0	1.6 (0.8 (0.8 (0.3 (0.0 (6.2 5.7 4.1 3.3 2.1
20000-21000 21000-22000 22000-23000 23000-24000 24000-25000	:122.43 :118.44 :114.41	134.20 1 129.70 1 124.80 1	41.70 148 36.80 142 32.30 137 27.40 131 22.80 128	.74 148.64 .01 142.20 .40 136.00	-32.0 -33.9 -26.0	3 -20.00 6 -20.00 4 -18.04	-16.01 -16.01 -14.06 -13.98 -13.99	-13.98 -13.98 -13.98 -12.03 -11.95	4.77 -3.86 -5.94 -6.02 -2.03	11	0.3 : 0.0 : 0.0 : 0.3 :	0.0	2.6 1.8 1.3 0.3 1.9
25000-28000 28000-27000 27000-28000 28000-29000 28000-30000	:102.84	112.50 1 108.30 1 104.70 1	18.60 121 14.60 117 10.50 112 06.45 108 02.80 104	.30 120.03 .90 115.38 .40 110.54	: -22.0 : -20.0 : -18.0	3 -18.01 0 -14.06 4 -13.88	-13.98 -12.03 -12.03 -12.03 -11.85	-11.98 -11.98 -11.95 -10.00 -10.00	-7.52 -8.02 -8.43 -7.97 -8.05	::	0.0 : 0.0 : 0.0 : 0.0 :	0.0:	0.6 0.3 0.8 0.0 0.3
3000-31000 31000-32000 32000-33000 33000-34000 34000-35000	: 88.76 : 88.58 : 83.51 : 80.66 : 78.57	94.50 90.90 87.80	92.80 94 49.20 90	.70 \$8.92 .10 \$6.20 .50 \$1.30	: -24.0	6 -12.03 6 -12.03 0 -11.95	-11.95 -10.00 -10.00 -10.00 -10.00	-10.00 -10.00 -10.00 -10.00 -8.05	-7.97 -7.97 -7.97 -7.97 -7.97	::	0.0 : 0.0 : 0.0 : 0.0 :	0.0 : 0.0 : 0.0 : 0.0 :	0.0: 0.8: 0.3: 0.0:

1200Z FIGURE B-14-4-C B-238

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

BASE			DUCT	S RCENTIL			SALA Turk	RS ERCENTI	F.C		NORM	AL ERCENTI			SUP	FLENT1	
FT MSL	:	%FRQ	10%	50%	90%	%FFQ	10%	50%	90%	%FRO	10%	20%	90%	%FFC	10%	50%	90%
SFC-500	-•-	24.8	190	289	387	28.9	98	289	387	95.9	1476	6004	34975	16.4	98	289	886
500-1000	;	0.0				0.5	986	1230	1575	3.6	98	1672	32416	1.8	96	197	956
1000-1500	1	O. 8	197	591	689	. O.8	294	591	787 :	4.9	98	3248	74188	2.6	78	29%	360
1500-2000		2.0	197	394	787 .	4.6	48	541	1280 .	4.9	98	2016	7:162 .	0.3	295	293	242
2000-2500		3.6	98	344	787	4.1	98	541	1201	4.1	650	3593	21805	9.8	394	591	886
2500-3000	1	1.8	197	591	689 :	4.6	98	591	1299	5.4	709	3543	32396	1.5	98	295	886
3000-3500	t	1.8	98	295	984	2.6	99	394	974 ;	6.4	650	2658	31904	2.3	98	886	1772
3500-4000	:	2.3	197	295	591	4.6	98	295	994	4.8	98	984	31235 .	2.6	197	64¢	1075
4000-4500		1.0	295	541	489	5.1	98	344	391	6.4	98	2461	21967	2.0	157	492	591
4500-5000	:	4.6	98	246	433	11.2	98	295	1083	12.0	98	3150	30349	5.9	108	295	709
5000-6000		5.4	98	394	689	10.2	98	394	984	16.8	98	2461	29758	6.6	98	394	:595
6000-7000	1	6.1	98	394	541	. 11.5	98	295	689	16.8	98	1772	28675	8.4	98	794	984
7000-8000	1	5.9	197	295	551	9.4	98	394	787 .	17.9	98	2165	27790	9.4	98	640	1250
8000-9000		4.1	98	197	322	9.4	98	295	591	20.2	98	2067	26815	10.2	98	294	1476
9000-10000	i	3.0	157	295	394	4.3	98	295	472 .	11.7	98	2412	2581:	7.7	98	492	1063
10000-11000		4.3	98	295	312	6.4	98	295	522 :	17.6	98	2756	24935	9.2	98	492	1112
11000-12000	:	2.8	98	197	295	4.9	98	197	394 :	10.7	98	13042	23852	7.2	98	689	1742
12000-13000	:	1.6	98	197	295 -	4.1	98	295	492	9.7	207	16782	22760	7.4	96	689	1152
13000-14600	:	1.9	98	98	197	2.6	98	295	394	10.5	98	12484	21795	3.6	98	177	1260
14000-15000	1	1.0	98	148	295	2.3	98	197	295	5.9	98	2100	20703 .	3.3	90	96	1.81
15000-16000		1.3	98	98	197	1.5	98	197	197	5.4	935	19325	19787	4.9	<u>-</u>	410	1366
16000-17000	1	0.5	144	164	164	0.5	164	164	164	5.4	1010	18045	18806	3.3	164	328	807
17000-18000	1	0.0				Ú. a	164	164	328	2.8	230	17215	17848	3.3	230	40	653
18000-19000	:	0.0				0.0			:	3.6	1066	16240	16897	1.5	164	128	056
19000-20000		0.3	164	164	164	0. 0				1.3	820	2297	15584	1.2	164	492	656

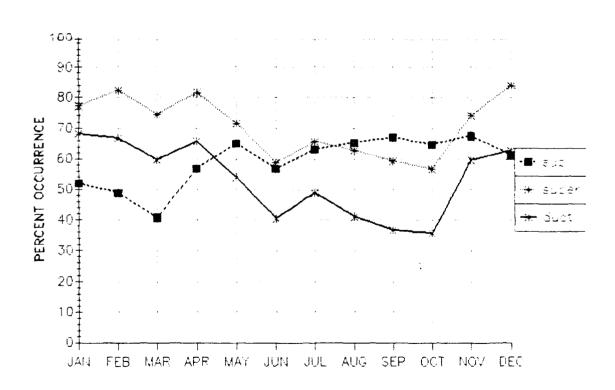
1200Z

FIGURE B-14-4-D B-239

AP PERCENT OCCURRENCE FREQUENCY

NO DATA AVAILABLE

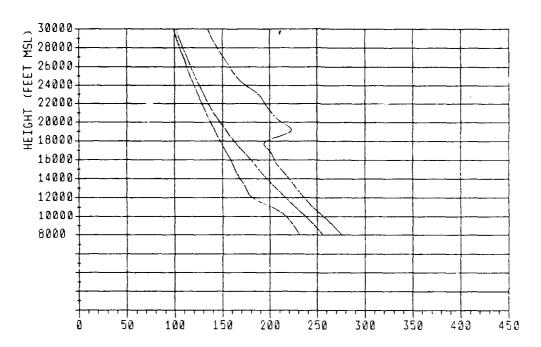
0000Z



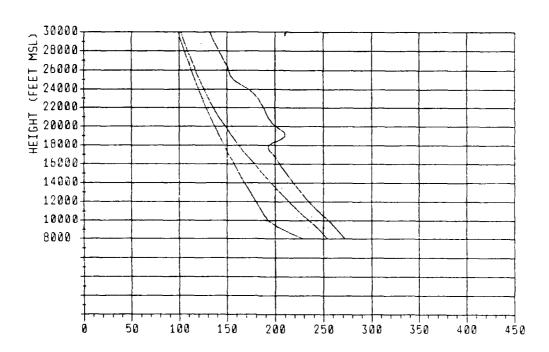
1200Z

FIGURE B-14-5 B-240

N PERCENTILES



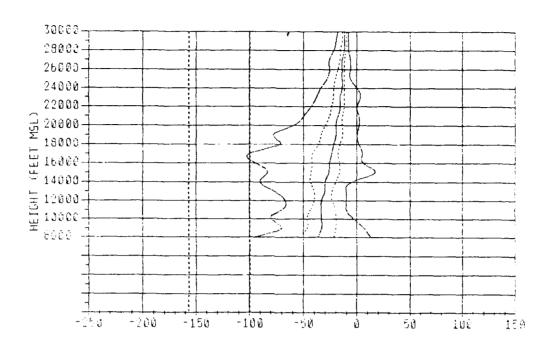
N (N-Units) 0000Z



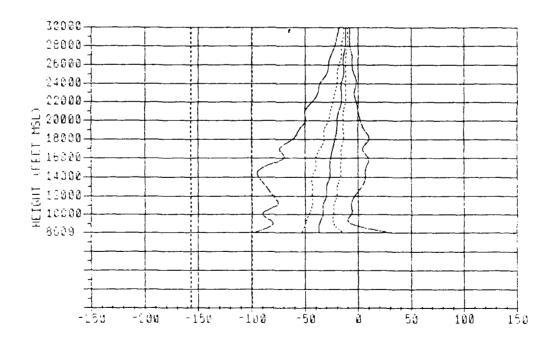
N (N-Units) 1200Z

FIGURE B-15-1-A B-241

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-15-1-B B-242

EGT FT MSL	3 3 1%	N PERCENTILES	80%	*** 1 1x	DMDR 10%	PERCENTILES SON SON	99% 33	PERCENT DUCT)	OCCURRENCE SALR) SUB
87C-9000 9000-10000	2197.30 2190.30	203.76 284.80 198.20 244.10		8.88 1-101.31 4.23 1 -73.43		-33.33 -22.13 -33.33 -20.08	10.42 11 10.03 11	1.2 1	2.1 3° 2.7 0.2 1 2.9
1000-11000 11000-12000 12000-13000 13000-14000 14000-18000	3176.30 3170.00 3163.40	169.20 233.80 182.40 223.30 178.60 213.10 169.40 202.90 162.90 193.20	231.30 24 220.20 23 210.40 22	4,15 1 -76.69 3,26 1 -66.66 4,30 1 -73.33 6,10 1 -60.08 7,82 1 -63.33	-43.36 -19.97 -39.97	-33.33 -19.82 -33.33 -20.05 -30.07 -20.05 -29.85 -19.92 -26.89 -19.82	-3.28 17 -10.03 23 -10.03 13 -9.99 13 -3.26 17	0.2 1 0.6 1 0.2 1 0.6 1 1.0 1	0.8 1 1.0 0.8 1 0.8 0.4 1 0.8 1.8 1 1.0 1.8 1 1.4
15000-16000 16000-17000 17000-18000 18000-19000 18000-20000	3148.40 3141.10 3135.30	187.10 184.40 181.88 178.00 145.80 188.50 140.41 188.10 134.80 180.00	193.80 20 178.30 19 167.50 22	9.80 1 -89.97 2.87 1 -83.82 8.38 1 -91.95 1.08 1 -78.04 7.88 1 -85.64	-40.00 -38.01 -33.98	-26.68 -16.66 -24.06 -16.66 -22.03 -16.01 -21.95 -14.06 -20.00 -13.96	9.90 11 6.02 13 6.02 13 2.95 11 6.02 17	0.6 1 1.4 1 0.4 1 1.6 1 0.2 1	2.1 1 2.9 2.9 1 3.7 2.1 1 3.5 2.1 1 3.9 0.6 1 3.2
2000-21000 21000-22000 22000-23000 23000-24000 24000-28000	1121.40 1117.10 1112.30	128.80 143.88 128.30 137.80 120.80 132.80 116.40 127.80 111.82 122.80	145.40 20 139.30 19 133.40 18	8.80 1 -58.00 0.01 1 -42.02 3.21 1 -42.07 3.08 1 -36.01 8.96 1 -30.00	-24.06 -22.03 -21.95	-17.96 -13.98 -16.01 -13.98 -18.01 -11.95 -14.06 -11.95 -13.90 -11.95	-1.85 32 2.03 13 2.03 33 0.00 23 -3.88 13	0.2 J 0.0 J 0.2 J 0.0 J 0.0 J	0.2 1 2.8 0.0 1 2.8 0.0 3 4.6 0.4 1 3.2 0.2 1 2.8
28000-28000 28000-27000 27000-28000 28000-28000 28000-30000	1100.70 1 96.80 1 93.20	107.70 118.80 103.95 114.50 100.20 110.20 86.23 108.10 92.93 102.45	117.90 15 113.20 14 108.60 14	11.04 1 -26.89 4.02 1 -24.90 6.78 1 -23.98 11.01 1 -21.95 5.98 1 -17.98	-18.01 -18.01 -14.08	-13.98 -11.95 -13.98 -11.95 -12.03 -10.00 -12.03 -10.00 -11.95 -10.00	-5.14 13 -6.02 33 -7.97 11 -7.97 13 -7.97 13	0.0 3 0.0 1 0.0 1 0.0 3	0.0 1 0.8 0.2 1 1.1 0.2 1 0.4 0.0 1 0.4 0.0 1 0.0
3000-3100 31000-32000 32000-33000 33000-34000 34000-35000	3 63.70 3 60.30 1 77.40	88.80 88.00 88.50 95.60 83.30 92.10 80.13 88.70 77.99 98.20	97.50 12 94.00 12 90.40 11	11.43 1 -17.98 6.98 1 -20.00 2.00 3 -14.06 7.69 1 -19.74 4.76 3 -22.02	-12.03 -12.03 -12.03	-11.88 -10.00 -10.00 -10.00 -10.00 -10.00 -10.00 -8.08 -10.00 -7.9?	-7.97 11 -7.97 27 -7.97 13 -7.97 13 -7.97 13	0.0 1 0.0 1 0.0 1 0.0 1	0.0 1 0.0 0.0 1 0.0 0.0 1 0.0 0.0 1 0.0 0.0 1 0.0

0000Z

EGT FT MBL	1 7 1%	N PERCENTILES	80%	99% 3 1%	DNDH PERCENTILES 10% 50% 90%	sex 3	PERCENT DUCT)	OCCURRENCE]
SFC-9000 9000-10000	1201.10 1193.90	244.60 253.90 232.60 243.20	260.88 250.70	271.18 1 -98.21 280.93 1 -80.00	-52.08 -36.32 -13.86 -48.74 -38.59 -23.30		1.21	1.9 3 7.8 1
10000-11000 11000-12000 12000-13000 13000-14000 14000-18000	1179.98 3173.30 3166.50	221.10 232.30 207.60 221.90 198.29 211.80 166.30 202.00 176.10 192.50	240.00 229.10 218.50 208.90 199.30	251.48 1 -89.91 241.30 1 -76.52 232.00 3 -80.08 224.12 3 -98.61 215.88 3 -89.42	-48.81 -33.33 -23.3(-43.36 -23.33 -23.3 -43.36 -30.07 -20.0(-43.36 -29.95 -19.9(-43.23 -26.69 -16.6(-0.04 1 -3.20 1 0.04 1	0.9 3 1 · 0.0 1 1 · 1.3 1	1.7 1 1.2 1 1.8 1 1.3 1 1.4 1 2.1 1 3.0 1 3.2 1 2.1 1 4.0 1
18000-18000 18000-17000 17000-18000 18000-18000 18000-20000	3149.10 3143.68 3137.80	188.20 183.70 181.70 178.50 188.00 186.90 148.50 188.10 143.10 182.00	190.90 163.20 174.70 166.90 156.90	207.08 1 -83.33 197.60 2 -70.00 188.80 3 -64.77 180.40 3 -62.03 172.08 3 -52.03	-39.97 -26.69 -16.60 -37.98 -24.06 -16.0 -33.98 -23.98 -10.9 -32.03 -21.95 -13.96 -30.00 -20.00 -13.96	10.00 1 5.94 1 6.05 7	1 1.0 1 0.7 1 0.9 1	2.1 1 3.8 1 1.3 1 4.0 1 0.9 1 3.9 1 1.3 2 5.1 7 0.2 1 3.3 1
2000-21000 21000-22000 22000-23000 23000-24000 24000-28000	1123.30 1118.90 3114.06	138.20 145.80 133.50 139.60 129.00 134.10 124.10 128.50 119.60 123.40	182.30 148.80 139.80 133.90 127.60	184.71] ~80.00 188.82] ~48.04 181.73] ~40.00 144.20] ~36.73 138.87] ~32.03	-27.98 -19.04 -13.99 -28.01 -17.98 -12.00 -23.98 -18.01 -12.00 -21.95 -18.01 -12.00 -20.00 -14.08 -11.99	0.00 1 -2.03 1 -3.98 2	0.1 1 0.1 1 0.1 1	0.2 1 3.3 1 0.1 1 2.6 1 0.0 1 2.0 1 0.1 1 1.5 1 0.2 1 2.3 1
25000-26000 26000-27000 27000-28000 26000-28000 26000-30000	1102.00 1 98.00 3 94.30	118.90 118.00 112.10 114.80 107.80 110.80 104.20 108.30 100.70 102.70	122.70 118.00 113.30 108.60 104.70	137.15 1 -28.04 131.70 3 -26.01 125.00 3 -22.03 118.84 3 -20.00 117.24 3 -17.98	-19.04 -13.98 -11.91 -17.86 -13.98 -11.91 -18.01 -12.03 -10.00 -14.06 -12.03 -10.00 -13.98 -11.95 -10.00	-6.02 3 -7.97 1 -7.97 1	0.0 1 0.0 1 0.0 1	0.1 1 0.7 1 0.0 1 0.7 1 0.0 1 0.3 1 0.0 1 0.2 1 0.0 1 0.2 1
30000-31000 31000-32000 32000-33000 33000-34000 34000-35000	3 84.50 3 81.20 3 78.10	87.40 88.20 84.10 95.80 80.50 82.30 87.50 88.90 85.30 86.30	101.00 97.58 94.00 90.30 87.30	109.12 1 -17.94 105.17 1 -20.00 101.14 1 -13.96 97.11 1 -18.04 93.30 1 -22.03	-12.03 -11.95 -10.00 -12.03 -10.00 -10.00 -12.03 -10.00 -10.00 -11.95 -10.00 -10.00 -12.03 -10.00 -8.00	7.97 1 7.97 1 7.97 1	0.0 1 0.0 1 0.0 1	0.0 1 0.0 1 0.0 1 0.2 1 0.0 1 0.2 2 0.0 1 0.0 1 0.0 1 0.0 1

1200Z FIGURE B-15-1-C B-243

THICKNESS STATISTICS

			DUCI					SRLI	R.S				NORM	M.			SUB		
BASE	1		TEK PI	ERCENTIL	.ES	:		THE PI	ERCENTIL	II.	1		THE P	ERCENTI	LES	:	THE P	ERCENTI	LES
PT MEL	:	EFRQ	10%	50%	90%	:	XFRQ	10%	90%	90%		XFRQ	10%	50%	90%	XFRQ	10%	80%	80%
SPC-9000		1.2	30	212	325	7	2.1	30	226	856	1	89.2	8230	26904	26933	2.7		522	1213
9000-10000	:	0.4	197	187	197	1	0.0				i	1.9	94	25132	25821		**	541	1024
10000-11000	-•.	0.2	98	10		- • -	0.8		394	492	- + -	4.1	3682	8662	25034	. 0.4	295	449	787
11000-12000		ŏ. 6	98	197	194		0.4	98	9.8	786	- 1	1.4	4429	10728	23852		200	295	787
12000-13000		0.2	197	197	197		0.4	197	246	295	1	1.0	1673	4232	22376		7.	295	394
13000-14000		0.6	98	197	296		1.0		197	304	:	1.0	10/3	3937	19098	0.8		344	787
14000-15000		0.0	96		96		1.4	9.6	187	295	ì	3.1	1516	20014	20801	1.0	90	1101	1378
18000-18000		0.8	98	197	298	-•-	2.1	98	197	295	- • -	3.5	591	19128	19521	1 1.6		492	1842
16000-17000	:	1.2	131	104	328		2.7	112	184	315	1	8.3	699	18291	18740	3.1	138	328	1089
17000-18000	:	0.4	164	164	184		1.9	164	184	328	í	4.7	944	17388	17881		184	328	1083
18000-19000	;	1.6	164	164	164		2.1	184	184	328	•	7.2	443	15912	16733	2.9	164	164	738
19000-20000	:	0.2	164	164	164		0.6	164	164	164	i	2.6	3002	18118	15699	2.6	164	974	271

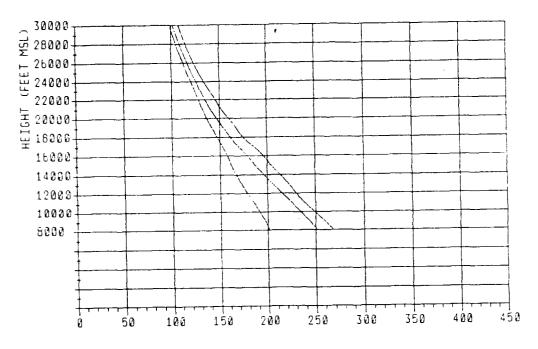
0000Z

			DUC				SRLR					NORM	AL				SUB		
BASE FT MSL	:	xFRQ	THK P	Brcentil 50%	25 : 80% :	MFRQ	THX PE	RCENTILE SON	SON	:	MFRQ	THK P	ercenti 50%	LES	(, 4:1	'RO	THE P	ERCENTIL 50%	80%
	- ÷ -	~~~~~								. . -									
SFC-9000	;	0.9	63	228	502 1	1.9	30	212	009	;	99.6	3278	26933	20933		7.8	90	423	799
9000-10000	1	1.1	197	197	344	0.4	98	295	492	:	1.6	9.6	5118	25998	1	1.1	26	197	915
10000-11000	- • -	0.5	90	197	394 :	1.7	98	295	591	• • -	4.8	1732	9695	28034	•	. 9	197	492	1496
11000-12000	÷	0.8	116	295	295	1.4	94	187	482	;	2.1		2774	23754		2. 6	98	197	758
12000-13000	i	0.0	98	197	394	1.1	90	295	433		2.4	9.0	2412	22770			98	394	1280
13000-14000		1.3	90	90	226	2.7	9.0	197	394	i	5.0	266	9003	21716		2.1	90	443	1102
14000-15000	ŧ	1.0	90	9.0	197	1.9	9.0	197	335	:	4.9	9.0	20014	20801	; ;	1.1	9.0	295	1083
15000-16000	- * -	1.3	98	197	295	2.1	99	197	298	- + -	8.0	410	19128	19817	1 .	2.6	98	394	853
18000-17000	ı	1.0	141	184	210	1.1	131	164	492	1	4.0	478	18045	10832		. a	164	492	1010
17000-18000	:	0.7	164	184	328	0.8	184	164	320		4.3	656	17225	17861	: :	3 . 3	184	492	1148
18000-19000	1	0.9	164	164	164 :	1.3	164	164	328	1	6.5	1080	16076	19897	1 4	1. i	164	328	620
18000-20000	;	0.1	184	184	184 1	0.2	164	164	324	;	2.5	1476	18092	15699	: :	2.6	184	328	984
		 -							- -										

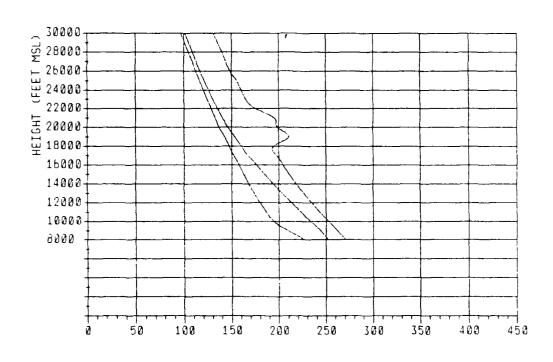
1200Z

FIGURE B-15-1-D

B-244



N (N-Units) 0000Z

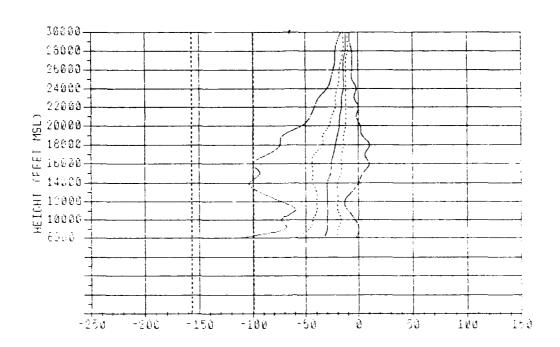


N (N-Units) 1200Z

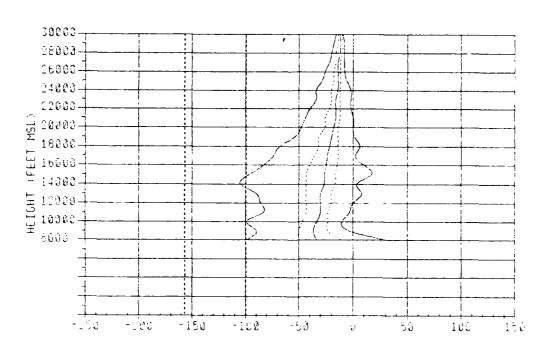
FIGURE B-15-3-A B-245

BOGOTA DRY SEASON

GRADIENT PERCENTILES



DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-15-3-B B-246

BOGOTA DRY SEASON

HOT	1	M PERCENTILES			DNDM PER	CENTILES		: PERCI	INT OCCURRENCE.	:
FT MSL	: 1%	10% 50%	90%	99% : 1%	10% 50		56%	DUCT	SRLR SUB	
	1196.70				-54.16 -30.		-1.67	0.9	2.2: 1.2	
9000-10000	: 188.80	193.40 239.00	249.80	256.08 : -70.05	-43.30 -29.	95 -19.92	3.26	1.0	0.2 : 2.2	2
10000-11000	1183.00	186.80 230.10	238.60	248.10 : -69.92	-40.10 -28.	69 -19.92	-8.64	0.3	: 0.5 : 1.2	2
11000-12000	1175.4	179.40 221.00	228.90	238.40 : -80.02	-30.07 -20.	95 -19.92	-10.03	:: 0.7	0.3 : 0.3	3
12000-13000	:169.80	173.10 211.20	210.50	228.50 L =78.69	-19.97 -29.	90 -19.92	~13.20	· 0.7	1.8 0.5	5
13000-14000	:182.9	166.70 201.30	208.70	220.10 : -68.58	-39.97 -29.	95 -19.92	-8.84	0.5	3 2.4 1 1.2	2 .
14000-18000	(187.1	160.40 191.50	189.00	210.57 : -95.64	-30.87 -28.	-14.68	0.00	1.7	2.7 : 2.7	7 .
15000-16000	1181.80	154.70 182.25	190.57	201.58 : -98.74	-43.23 -26.	56 -10.66	6.64	1.5	3.1 4.6	£ :
18000-17000	: 146.0	149.50 173.50	182.50	193.85 : -94.21	-40.04 -23.	98 -16.61	6.67	:: 3.7	3.4 3.8	8
17000-18000				181.92 : -76.01	-36.01 -21.			0.3	1.2 2.6	Ė
10000-10000				172.20 : -74.36	-31.98 -20.		8.02	1.9	1.5 : 3.6	a :
19000-20000				164.18 : -57.54	-30.00 -17.			c. 5	0.5 1.8	
	•							• • • • • • • •	•	
20000-21000				186.80 : -50.00	-28.01 -14.			: 0.2		
21000-22000				150.07 : -45.64	-25.94 -10.			: 0.2		
22000-23000				144.17 : -35.93	-21.00 -15.			:: 0.0		
23000-24000				137.40 : -32.03	-20.00 -13.			:: 0.2		
24000-25000	1100.00	110.30 122.20	127.20	131.21 -28.04	-18.04 -13.	98 -11.95	-5.94	. 0.4	: 0.7 : 1.8	_
25000-26000	(104.20	108.40 118.00	122.30	125.01 : -28.84	-17.96 -13.	90 -11.95	-5.94	. 0.0	0.0: 0.7	
	1100.5			121.51 -22.03	-16.01 -12.			0.0	. 0.0 : 0.4	4 :
27000-20000	96.5			116.85 : -20.00	-14.08 -12.			0.0	: 0.0 : 0.7	7 :
28000-28000	93.0			112.52 : -20.00	-13.00 -12.			0.0		
28000-30000	1			108.72 : -18.01	-13.98 -11.			0.0		
	• • • • • •	·					· ·	• •	• • • • • • • • • • • • • •	:
10000-11000				105.10 : -16.01	-12.03 -10.	00 -10.00	-7.97	:: 0.0	. 0.0 : 0.4	
31000-32000	. 83.6			101.56 : -20.00	-12.03 -10.	00 -10.00		0.0	. 0.0 ! 0.2	
12000-11000	1 #0.2			98.01 : -13.98	-12.03 -10.	00 -10.00		0.0	: 0.0 : 0.2	
31000-14000	1 77.4			94.46 : -20.00	-11.98 -10.	.00 -8.05		:: 0.0	: 0.0: 0.0	
34000-38000	: 75.5	78.40 88.10	87.30	91.90 : -21.95	-11.95 -10.	00 -7.97	-7.97	0.0	: 0.0 : 0.2	2 ·

0000Z

HOT	1		ENTILES					H PERCENT			::	PERCENT	OCCURRED SRLR :	NCE SUB
FT MSL	: 1%	10%	50%	90%	88%	: 1%	10%	50%	90%	99%			3KLK .	
#FC-9000	. 201 . 2	0 242.10	251.80	259.25	269.31	1-103.25	-50.00	-33.33	-12.50	33.33	1.1	1.0:	2.4 :	9.5
9000-10000			241.40	248.00	258.50	-03.23	-48.74	- 77.33	-23.30	-8.64	; ;	1.2 :	1, 4	1.8
						•					-++	:		
10000-11000			230.00	236.50		: -96.61	-43.36	-33.13	-23.30	-10.03	1 :	1.3 : 0.8 :	2.2 :	1.3
11000-13000			220.50	227.00	240.70		-40.10	-30.07	-23.30	-3.26 0.00		1.0:	2.0	2.5
13000-i3000			210.80	217.43	232.00	-89.97	-40.10	-29.95 -29.95	-19.92	9.71	::	1.0	2.6	3.1
13000-14000			200.00	200.00	223.00	-69.87	-43.36		-18.66	8.64	: :	1.4	4.1	3.6
14000-15000	:100.4	172.60	101.10	100.50	210.00	1-103.30	-43.36	-20.69	-10.00					
18000-18000		168.60	181.70	189.00	208 30	-91.36	-43.38	-26.69	-16.66	10.03	- 11	1.5	2.6	4.8
16000-16000			173.10	181.90	200.76		-38.04	-23.00	-18.01	3.26	1.1	1.0:	1.5 :	3.3
17000-1700			184.60	173.30	191.01		-33.90	-22.03	-13.96	0.00		0.2 :	1.0:	2.9
1000-1000			150.00	165.50	183.00	-62.03	-31.95	-20.00	-13.90	8.02	4.1	0.8	1.1:	5.0
10000-10000			140.70	157.70	178.44	-40.01	-27.98	-18.04	-13.90	-2.03	: :	0.2 :	0.4 :	2.3
19000-20000											- • •			
20000-21000	127.7	0 187.40	144.00	181.10	160.60	: -46.01	-20 01	-17.86	-12.03	0.00	: :	0.1 :	0.3 :	2.8
21000-22000			138.90	144.90	163.91	: -43.98	-24.06	-18.01	-12.03	-1.95	::	0.2	0.2	2.1
22000-23000			133.30	138.90	150 31	1 -30.20	-22.03	-16.01	-12.03	-2.03	: :	0.2 ;	0.1 .	1.8
23000-24000			120.10	133.10	162 .2	-35.96	-20.00	-14.06	-11.95	-2.03	1.1	0.0 :	0.2 :	1.5
24000-25000			123.20	127.50	148.75	-35.98	-20.00	-13.90	-11.98	-3.98	: :	0.1 !	0.4 :	1.5
	. • - · · ·					- •					-++			
25000-26000	:108.7	73 115.60	118.80	122.50	141.50		-17.98	-13.98	-11.98	-8.02	1.1	0.1:	0.0	0.5
20000-27000	:101.0	0 111.00	114.60	117.80	135.30	-25.83	-16.01	-13.90	-11.95	-7.97	: :	0.0	0.1	0.1
27000-20000	97.6	0 107.00	110.30	113.20	128.78	-21.95	-18.01	-12.03	-11.05	-7.97	; 1	0.0:	0.0:	0.5
20000-29000	. 94.2	20 103.96	100.20	108.50	122.91	1 -10.32	-14.08	-12.03	-10.00	-8.05	: :	0.0	0.0	0.4
28000-30000	: 00.4	100.50	102.40	194.40	116.84	: -18.01	-13.00	-11.90	-10.00	-8.05	: :	0.0 ;	0.1	0.1
			99.10	101.00	111.65	-17.98	-12.03	-11.95	-10.00	-7.97	11	0.0:	0.0	0.2
10000-11000			95.70	97.50	109.76	-22.01	-12.03	-10.00	-10.00	-7.97		0.0	0.0 :	0.1
31000-32000			92.20	94.00	105.04	-13.08	~12.03	-10.00	-10.00	-7.97	- 11	0.0	0.0	0.0
12000-11000			00.05	90.30	102.02	-20.00	-11.98	-10.00	-10.00	-7.97	- ; ;	0.0	0.0	0.0
33000-34000 34000-38000	78.1		88.37	67.30	99.56	-22.03	-12.03	-10.00	-8.05	-7.97	- 11	0.0	0.0	0.0
14000-18000		99.20												

1200Z FIGURE B-15-3-C B-247 **BOGOTA**

DRY SEASON

THICKNESS STATISTICS

			DUCT				SRL					NORM	ial Percenti		,		SUB TRK PI	RCENTI	.TS
DASE Pt Mel	;	KFRQ	THE PE	ERCENTILI SON	20% 20%	: NFRQ	10%	ERCENTII 50%	9C%	:	KFRQ	10%	50%	90×	<u> </u>	EFRQ	10%	90%	80%
FC-9000 00-10000	; ;	0.0	30 107	228 187	522 197	2.2	64 96	228 98	507 98	1	1.0	8177 3937	26904 11942	26033 20723	:	1.2	197 197	817 197	1900 1073
00-11000 00-12000 00-13000 00-14000	:	0.3 0.7 0.3 0.5	197 197 98	246 197 98 197	295 197 98 197	0.5 0.3 1.2 2.1	94 394 96	197 443 148 197	295 492 669 364	! ! !	5.7 0.7 1.4 2.9	2087 4038 384 1478	#### #################################	28034 23784 22770 21824	: .	0.9 0.2 0.5 0.9	98 197 98 285	149 197 984 787	984 197 984 1476 1759
00-18000	1 - • -	1.7	94	146	205	1 2.6		295 	338	: • - :	4.6	1214	18439	19617	- - -	3.6	98	344	1099
00-17000	:	0.5	164 164	164 164	164	1.2	131 164 164	164 164 164	329 326 328	:	0.8 4.3 5.3	164 1098 804	18048 17148 18912	14931 17861 16365	:	2.4 1.9 3.1	98 164 164	328 326 320	951 951 1165
00-19000	1	1.9	164	164	164	1.5	164	164	164	ì	2.8	787	18256	18748	1	1.2	184	328	1148

0000Z

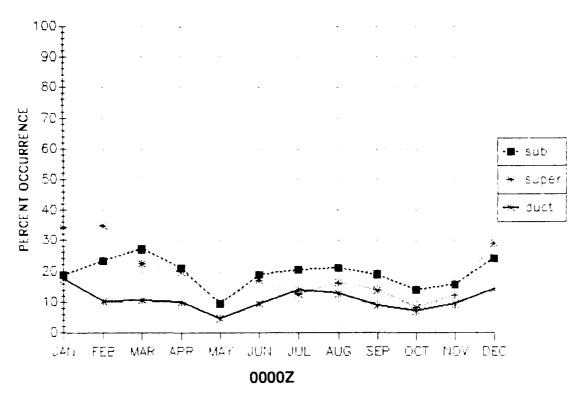
BASE	:		DUCT	S RCENTII	.ES	1		SRLF THK PE	R RCENTIL	R6	:		NORM THE P	MAL PERCENTI	LES	,		SUB THK P	ercenti:	LES :
FT MBL	:	XFRQ	10%	90%	90%	:	MFRQ	10%	80%	90%	1	XFRQ	10%	50%	90%	1	MFRQ	10%	50%	90%
FC-9000 100-10000	:	1.0	30 90	197 197	1034 394		2.4 1.8	30 98	295 298	689 492		99.4 2.0	272 6 .87	26904 9219	26933 28989		9.5 1.0	96	423 295	718 915
100-11000 100-12000 100-13000 100-14000	:	1.2 0.6 1.0 1.0	197 98 98 98	295 197 197 197	335 394 364 354 238	:	2.0 1.1 1.8 2.3 3.8	98 98 98 98	295 197 295 197	492 541 492 295 295		4.0 2.3 3.3 4.7 6.2	1122 2658 177 96 138	8413 8444 22081 4811 20014	24938 23764 22770 21738 20901	:	0.3 0.9 1.9 2.2 3.0	197 197 98 98	541 1101 344 394 394	1417 : 1969 : 1201 : 889 : 1083 :
100-16000 100-17000 100-18000 100-18000	:	1.4 0.8 0.2 9.8 0.2	98 102 164 164	98 194 164 184	299 104 328 184 184	:	2.3 1.4 C.9 1.0	90 157 164 164	197 295 164 164 164	298 328 328 282 328	1	6.6 4.3 3.3 8.5 2.2	751 2051 653 1936 1427	19177 19209 17228 18078 18174	19817 19832 17881 18733 18748	!	3.4 2.0 2.2 4.5 1.8	98 154 164 164	394 361 329 329 328	991 1 869 1 673 1 673 1

1200Z

FICURE B-15-3-D

B-248





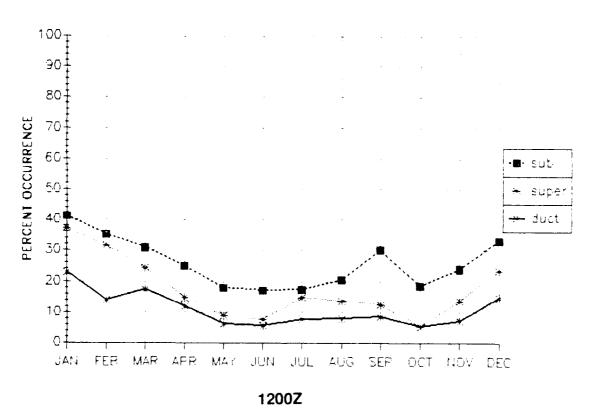
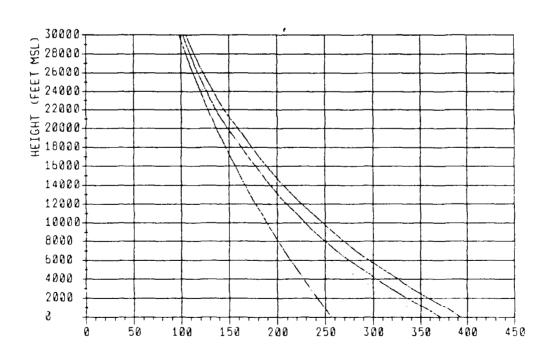


FIGURE B-15-5 B-249

NO DATA AVAILABLE

N (N-Units) 0000Z



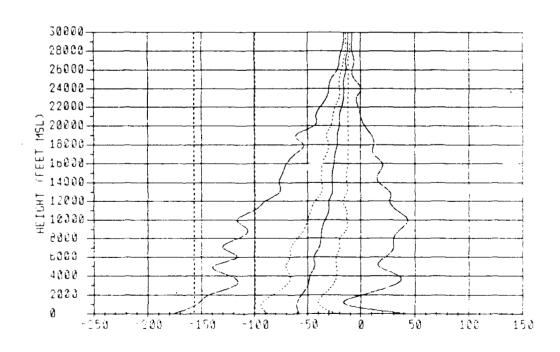
N (N-Units) 1200Z

FIGURE B-16-1-A B-250

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-16-1-B B-251

NO DATA AVAILABLE

0000Z

HGT	ı	N PERC	ENTILES			1	DND	H PERCEN	TILES		11	PERCENT		ENCE
FT MOL	1 1%	10%	50%	90%	99%	1 1%	10%	50%	POX	991	11	DUCT I	SRLR I	202
8FC-500	1258.34	366.19	376.19	384.38	392.47	1-179.14	-87.50	-34.16	-13.39	61.44	11	4.1	9.9 1	11.0
500-1000	1255.13	354.52	347.25	376.00	384.19	1-144.44	-03.33	-56.25	-24.69	2.08	- 11	2.4	7.4 1	1.1
1000-1500	1251.47	345.91	356.25	347.75	377.60	1-156.25	-95.83	-60.41	-35.41	-11.74	11	2.0 /	11.7 /	ž.
1500-2000	1247.70	335.25	348.49	350.38	348.07	1-145.00	-97.91	-56. 33	-39.56	-4, 25	11	1.6	10.0 1	1.
2000-2500	1243.90	325.00	339.19	340.07	350.71	1-152.52	-87.50	-54.25	-37.50	-2.08	1.1	1.4	7.9 1	1.
2500-3000	1239.00	314.50	329.50	339.49	349.75	1-141.41	-79.16	-54.16	-29.16	10.42	11	1.4 /	5.3 /	2.
3000-3500	1234.00	304.57	320.49	330.50	341.25	1-123.31	-74.79	-50.00	-23.30	43.75	11	0.7 1	4.1 1	3.
3500-4000	1232.60	297.01	313.03	323.19	333.69	1-122.71	-72.91	~50,00	-23.30	27.14	11	0.6 1	4.2	3.
4000-4500	1227.30	200.00	305.50	314.00	324.75	1-127.08	-7Q. 8 3	-47.91	-21.04	27, 16	- 11	0.4	3.2 (4.
4500-5000	1224.10	202.51	298.25	309.25	320.30	1-145.83	-72.91	-43.75	-20.05	33.33	- 11	2.7	4.7	٠.
5000-6000	1219.00	247.47	207.25	299.19	308.49	1-143.78	-75.00	-43.75	-22.91	18.75	-++	2.6 1	7.4 (5.
4000-7000	1213.10	252.20	273.04	284.49	293.54	1-118.75	-72.91	-41.44	-20.83	27.08	11	1.2 :	4.9 1	5.
7000-8000	1206.70	238.30	240.00	271.75	280.94	1-131.90	-44.44	-39.50	-17.72	34.59	- 11	2.2	5.6 (7.
8000-9000	1177.70	224.60	247.20	259.30	248.38	1-123.30	-43, 28	-34.71	-14.46	33.33	11	2.4 1	5.5 (7.
9000-10000	1173.00	214.30	234.00	247.20	265.73	1-106.64	-53.36	-33.33	-10.03	46.61	11	1.3	3.5 1	12.
0000-11000	1108.00	204.70	226.10	234.50	245.24	1-114.66	-83.30	-30.07	-10.03	40.02	11	1.9 (4.9 1	13.
1000-12000	1181.80	197.24	214.40	225.90	234.00	1-103.30	-44.41	-29.95	-10.03	34.59	8.1	1.0 1	4.2 1	•.
2000-13000	1176.10	189.80	207.20	214.00	223.10	1 -89.97	-43.36	-24.47	-13.20	24.49	- 11	0.6	2.2 1	ė.
3000-14000		181.90	198.40	207.10	213.50	1 -79.93	-39.97	-24.49	-10.03	29.72	- iii	0.4 1	1.3	ē.
4000-15000		174.70	190.20	198.20	203.84	1 -74-69	-39. 47	-24.54	-10.03	17.92	11	0.2 1	1.4	7.
5000-14000	1159.00	147.70	182.40	170.10	195.05	(-74.49	-36.71	-24.54	-10.03	20.05	-++	0.4	1.6	٠
4000-17000	1154.90	161.90	175.00	182.30	187.30	1 -40.04	-34.01	-23.90	-11.75	20.02	- 11	0.5 1	1.1	7.
7000-18000	1147.90	154.10	147.30	173.00	178.40	1 -40.00	-32.03	-23. 90	-11.95	13.07	- 11	0.0 1	0.4	۵.
8000-19000		150.40	159.70	144.10	170.77	1 -59.41	-32.03	-22.03	-10.00	15.74	- 11	0.5	0.7 1	Ĭ.
9000-20000		144.70	152.50	150.40	142.40	1 -52.03	-30.00	-21.95	-11.95	4.19	- 11	0.1	0.1 1	4.
0000-21000	1135.70	137.30	144.20	151.60	155.00	1 -44.15	-24.01	-20.00	-12.03	4.04		0.1	0.4	2.
	1131.39	134.40	140.20	145.50	149.20	1 -41.95	-25.93	-18.04	-11.95	0.00	- 11	0.1	0.0 1	1.
2000-23000	1127.10	129.70	134.70	139.50	143.10	-38.04	-22.03	-17.94	-11.75	-1.75	11	0.2 i	0.1	i.
3000-24000		124.90	129.10	133.40	137.09	1 -31.73	-20.00	-14.01	-11.95	-2.03	- 11	0.0 i	0.0 i	1.
4000-25000		120.40	124.00	127.90	130.70	1 -30.00	-20.00	-14.01	-11.95	0.00	- 11		0.2 1	2.
3000-24000	1114.70	114.50	117.40	122.80	125.50	1 -24.01	-10.04	-14.04	-11.75	-7.97	-++	0.0 1	0.0 1	٠
	1111.00	112.40	115.10	118.00	120.40	-21.95	-14.01	-13.76	-11.95	-4.02	- i i	0.0	0.0	ŏ.
7000-28000	1104.70	108.40	110.00	113.40	115.70	1 -20.00	-14.01	-12.03	-10.00	-4.02	ii	0.0	0.0 1	ŏ.
1000-27000		104.70	104.70	100.00	110.40	1 -17.96	-14.04	-12.03	-10.00	-8.05	- i i	0.0 i	0.0 i	ŏ.
7000-30000	1100.16	101.30	103.00	104.90		1 -14.01	-13.70	-11.95	-10.00	-7.97	11	0.0 1	0.0 1	0.
0000-31000	1 94.90	70.10	77.60	101.20	102.40	1 -14.06	-12.03	-11.95	-10.00	-7.97	++	0.0	0.0	۰
1000-32000	1 93.70	74.80	74.20	97.80	99.00	-14.97	-12.03	-11.95	-10.00	-7.97	ii	0.0 i	0.0	ŏ.
2000-33000	70.10	71.10	72.70	74.30		-13.90	-12.03	-10.00	-10.00	-7.97	- ;;	0.0	0.0	ŏ.
3000-34000	07.10	66.00	87.30	90.60	91.40	-13.70	-12.03	-10.00	-10.00	-7.97	- í í	0.0 1	0.0 1	ŏ.
			84.70	87.70	7					-7.97	٠.	'		õ.

1200Z FIGURE B-16-1-C

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

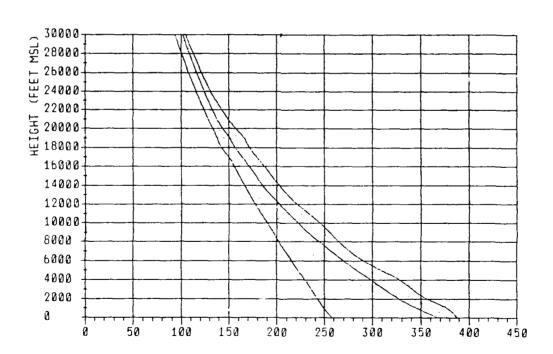
		DUCT						•		NORM						
BASK I		THK PE	ERCENTIL				RCENTI			THK P	ERCENTI		1		ERCENT I	LEO
FT HOL I	KFRO	10%	50%	90% (XFR0	10%	30X	TOX I	XFRQ	10%	50X	90%	1 XFRO	10%	50%	90%
SPC-500	4.1	46	243	531	7. 7	78	243	530	♥7. ■	627	7475	35210	11.0	99	243	453
500-1000 I	1.7	70	275	591	5.5	70	394	784 1	5.4	78	7264	34493	0.8	78	197	904
1000-1500 I	0.0	70	394	797 1	4.1	70	571	1083	6.1	98	16372	34100	0.7	197	443	787
1500-2000 1	1.3	136	275	667 1	3.0	78	571	1280	5. 1	004	8120	33540	0.4	487	1101	1181
2000-2500	0.8	70	275	487 I	2.4	78	640	1171	3.4	78	4330	33126	1 1.0	98	787	2458
2500-3000	1.2	275	443	ムブマ I	1.4	177	487	1277	4.3	78	2067	15840	1 1.7	76	797	1 350
3000-3800 I	0.2	374	443	472 1	2.4	70	571	806 1	3.3	78	1575	31727	1 1.1	76	738	1340
3500-4000 I	0.5	275	541	591	2.3	78	492	1280	3.5	78	2654	31620	1 1.4	98	984	1220
4000-4500 I	0.4	275	295	374 1	1.1	78	394	787 1	2.7	70	2342	30841	1 2.0	70	487	1093
4500-5000 1	2.5	76	275	472	3.7	78	275	745	4.0	157	3839	30250	1 4.1	98	344	1200
5000-4000 I	1.7	140	295	492	5.6	70	492	817	♥.7	70	3051	29756	1 2.7	70	487	1673
6000-7000 I	1.2	197	295	394 1	4.9	78	394	750 (7.3	78	1969	20510	1 3.3	76	571	1555
7000-8000 I	1.0	76	197	472	4.1	70	374	487		78	2707	27876	1 5.0	78	837	2006
8000-7000 I	2.2	76	197	394 1	3.9	78	344	591		78	1870	24408	5.9	130	487	1732
4000-10000	1.1	70	275	492	2. 🕈	70	275	492	7.3	78	2953	25723	7.6	78	571	1575
10000-11000	1.0	70	197	433 1	4.3	70	295	512	12.9	70	2458	24847	1 6.6	70	640	1 200
1000-12000 1	1.0	197	197	275 1	3.8	76	293	472	7.7	70	3642	23754	5.4	78	489	1850
2000-13000	0.4	78	197	295 1	1.6	70	197	335	6.0	70	2754	22474	1 5.1	78	467	1417
3000-14000 I	0.2	70	70	79 1	1.2	76	78	275 1	6.4	78	1870	21500	1 4.4	78	640	1207
4000-15000	0.2	70	140	197 /	1.1	70	197	295	5.0	78	3035	20504	1 4.9	78	591	1211
B000-16000 I	0.6	70	197	295 1	1.4	70	197	244	7.9	78	3475	17017	1 5.5	98	623	1146
4000-17000 I	0.5	78	144	230 I	1.0	131	144	295	6.2	144	18209	10032	1 4.7	164	454	1146
7000-18000 I	0.0			1	0.4	328	320	320	4.7	784	17225	17001	1 4.4	164	454	1146
18000-19000	0.5	144	144	164 1	0.6	144	164	320	0.3	820	15912	14877	4.1	164	492	820
19000-20000 I	0.1	144	144	164 1	0.1	144	144	164	2.9	1476	15420	15748	1 2.5	144	454	1140

1200Z

FIGURE B-16-1-D B-253

NO DATA AVAILABLE

N (N-Units) 0000Z



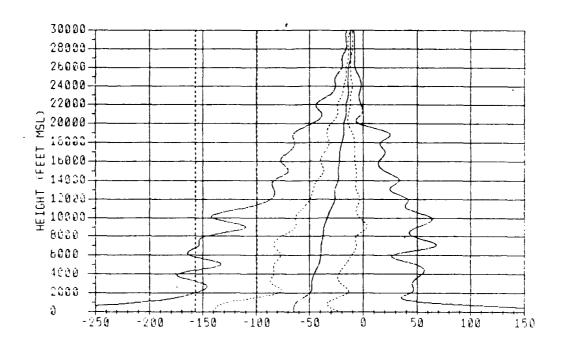
N (N-Units) 1200Z

FIGURE B-16-2-A B-254

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-16-B B-255

NO DATA AVAILABLE

0000Z

HET		N PERC	ENTILES			1	DND	H PERCEN	TILES		11	PERCENT	DCC: IRR	ENCE I
FT HOL	1 1%	10%	Sox	90%	99X	1 1%	10%	Sox	90%	772	ii		SRLR I	
	+ -					.+					-++		+	
BFC-500	1303.74	340.24	373.06	382.87		1-382.19		-56.33	-6. 33	215.14	11	14.0 1	19.7 1	12.7
500-1000	1287.00	346.90	343.00	373.54	380.54	1-331.13		-44.44	-27.08	440.54	1.1	15.8	27.5 1	7.0 1
1000-1500	i 255. 17	333.29	351.03	343.49	386.00		-145.83	-70.63	-41.44	121.31	1.1	11.1 1	27.5 1	
1500-2000	1246.05	322.44	337.25	383.21	377.02	1-166.66	-114.50	-54.25	-22. 11	72.16	11	2. ♥ 1	19.3 1	
2000-2500	1244.74	315.00	330.54	344.71	344.30	1-141.41	-63.33	-50.00	-4.25	73.50	11	0.0 1	10.5	
2500-3000	1241.04	300.54	323.00	334.38	354.42	1-146.25	-72.91	-45. 63	-10.42	43.75	11	2.3 (5.0 1	
3000-3300	1237.44	300.54	315.25	320.49		1-140.63	-87.50	-45. 93	-14.50	64.41	11	1.2 1	7.0 1	
3500-4000	1234.05	292.73	308.54	320.35	339.73	1-172.91	-87.58	-45.63	-22.08	47.66	11	2.3 1	3.8 (
4000-4500	1230.11	202.12	301.56	312.14	331.05	1-156.67	~80 .75	-45. 63	-22.91	41.50	1.1	1.01	11.1	
4500-5000	1227.30	275.37	273.00	304.69	324.65	1-224.07	-93.75	-43.75	-19.92	*1.71	- 11	4.1	11.7	0.2
5000-6000	1220.46	261.37	282.25	295.00	309.55	1-134.01	-65.41	-37.50	-14.50	30.47	11	1.0 1	15.6	
6000-7000	1214.61	244.18	268.50	201.00		1-171.44	-03.33	-37.50	-10.42	29.00	- i i	4.7	11.7	
7000- 6 000	1206.22	232.20	254.36	267.25	274.04	1-152.65	-65.41	-37.50	-3.39	72.70	11	4.7 1	12.9	
8000-9000	1201.00	217.51	241.70	257.75		1-157.90	-63.21	-37.50	-3.39	50.44	11	4.1 1	12.3	14.0
	1175.01	208.40	229.00	244.70	253.59	1-117.40	-63.41	-33.33	6.64	50,00	- 1	2.3	5.0	
	*					*************************************					+			!
10000-11000		202.48	210.40	233.20		1-134.17	-66.66	-33.33	-3.24	43.02	11	2.9		24.6
11000-12000		192.54	209.20	222.00		1-113.41	-54.44	-27.75	-3.39	37.30	- 11	0.6	4.7 !	
	1170.22	165.01	200.70	211.30	210.70	1 -86.71	-50.00	-24.47	-3.24	50.00	11	0.4	1.0	
13000-14000		178.02	191.10	202.30	209.60	1 -86.71	-50.00	-24.69	-6.64	29.95	11	2.3 1	2.3	
14000-15000	1166.01	171.60	183.00	193.30	177.57	1 -79.71	-43.23	-23.30	-6.64	40.07	- 11	0.0 1	2.3	12.3
15000-16000	1161.43	165.70	174.30	165.79	171.47	1 -79.59	-40.09	-23.30	-6.64	14.44	11	1.2 1	1.2	9.2
16000-17000	1155.29	157.40	140.30	178.64	184.00	1 -74.02	-40.00	-22.03	-7.97	18.01	11	0.4 1	1.2	0.0 1
17000-18000	1148.07	153.50	140.30	170.40	175.97	1 -73.45	-37.94	-20.97	-7.97	27.45	- 11	0.4	0.4	0.2
18000-17000	1141.15	147.60	153.70	142.80	167.41	1 -64.27	-32.03	-18.04	-6.02	17.97	1.1	0.0 1	1.2	9.7 1
19000-20000	1140.41	142.60	147.00	155.30	161.07	1 -54.06	-33.90	-17.96	-12.03	-0.20	1.1	0.4 1	0.4	
20000-21000	1134 01	137.00	141.40	148.20	152 70	1 -45.41	-27.94	-14.01	-13.99	-2.19		0.0 1	0.4	0.4
	131.70	133.20	134.20	141.07	145.79	-45.75	-23.78	-14.01	-12.03	-1.76	11	0.0	0.0	
	1127.40	128.80	131.30	135.77	139.59	1 -37.91	-22 03	-14.04	-12.03	-1.94	ii	0.0 i	0.0	
23000-24000		124.10	124.50	129.70	134.04	-30.00	-10.04	-13.90	-11.95	-3.40	- i i	0.0 i	0.0	
24000-25000		120.00	122.10	125.00	128.00		-14.01	-13.70	-11.75	-3. 90	- ; ;	0.0	0.0	
	*										-++			
25000-26000		114.10	118.10	120.50	123.40	1 -21.69	-14.01	-13.90	-11.75	-3.90	11	0.0	0.0	
	1111.01	112.20	114.10	114.50	117.00	1 -20.00	-14.04	-12.03	-11.93	-7.97	11	0.0 !	0.0	
	1107.04	108.10	110.10	112.20	114.63	1 -18.04	-13.90	-12.03	-11.95	-0.02	- !!	0.0 !	0.0	
	1103.50	104.50	104.20	107.80	110.00	1 -17.91	-13.90	-11.95	-10.00	-7.97	- !!	0.0 1	0.0	
29000-30000	1100.20	101.20	102.70	104.20	105.79	1 -14.01	-12.03	-11.95	-10.00	-0.11	11	0.0 1	0.0	0.0
30000-31000	1 96.90	78.00	99.40	100.00	102.10	1 -14.04	-12.03	-10.00	-10.00	-7.97	11	0.0 1	0.0	
31000-32000	1 93.71	94.70	76.10	97.40	78.50	1 -17.91	-12.03	-10.00	-10.00	-7.97	- 11	0.0 1	0.0 1	0.0 1
32000-33000	1 90.17	91.10	#2.60	94.20	95.00	1 -13.70	-12.03	-10.00	-10.00	-7. 9 7	1.1	0.0 1	0.0	0.0
33000-34000	1 84.40	88.00	07.25	70.40	91.10	1 -13.70	-11.95	-10.00	-10.00	-7.97	- 11	0.0 1	0.0	0.0 1
34000-35000	84.20	65.60	64.70	87.70	88.10	1 -14.62	-11.95	-10.00	-8.05	-6.02	- 11	0.0 1	0.0	0.0

1200Z FIGURE B-16-2-C B-256

THICKNESS STATISTICS

NO DATA AVAILABLE

0000Z

BARE I		DUCT	'B ERCENT IL	Z		BRLA Turk BR	RESENTI			NORM:	al Ercenti	150	ı	SUB THK P	ERCENT I	. 60
FT HOL	XFRQ	10%	50%	90x	XFRG	10%	50%	90%	XFRG	10%	50%	90%	XFRQ	10%	50%	90%
8FC-500 I	14.0	70	341	915	17.7	78	310	1144	91.0	295	2215	35210	12.9	98	341	787
500-1000 I	11.1	78	374	391 1	17.7	78	571	1181	10.5	78	4595	34561	1.0	78	344	204
1000-1500 I	4.1	46	394	866 I	7.4	78	472	1280	17.5	78	3051	33971	4.1	99	784	2456
1500-2000 I	0.0			- 4	5.3	76	298	984	16.4	76	3248	33400	6.4	630	1161	1575
2000-2500 I	0.0				2.3	78	443	1101	9.4	70	2707	33804	2.♥	394	984	1772
2500-3000	2.3	197	394	571	3.5	78	784	1280	7.4	78	1101	25014	1.0	984	1101	1370
3000-3500	0.4	492	472	472 1	2. 7	667	787	1181	5.6	78	1575	10512	3.5	98	787	1474
3500-4000 I	1.0	295	374	391 !	3.5	78	837	1083	7.0	187	1624	13134	0.4	1870	1870	1870
4000-4500 I	1.2	487	487	487	7.0	120	374	984	7.0	120	2313	23547	1.2	984	1230	1474
4800-8000	2. 🕈	197	298	295	7.0	70	394	487	8.2	78	394	30329	5.0	78	275	1545
5000-4000 I	1.0	177	295	295	8.2	78	295	787	18.7	70	1772	29807	7.0	120	784	2104
4000-7000 I	4.1	78	295	472	7.4	177	394	487	14.6	70	2707	20597	7.6	78	689	1673
7000-8000 I	4.1	70	70	394 1	11.1	118	472	778	14.6	78	2441	14022	7.0	78	487	145
8000-9000 I	4.1	70	273	394 1	7.4	78	394	430	19.7	78	2244	26116	8.2	98	787	1494
9000-10000	2.3	70	140	275	5.6	70	275	472	11.1	78	2342	25614	14.0	157	787	128
0000-11000	2.9	70	197	295 1	8.2	70	295	433	23.4	78	3543	24837	12.3	78	197	141
1000-12000	0.4	78	70	76 1	4.1	197	394	492	7.7	70	1476	12697	7.6	78	787	1230
2000-13000	0.4	78	70	78 1	1.0	70	70	295	15.2	78	3740	22848	111.7	98	487	110
3000-14000 I	2.3	70	78	197 1	2.3	76	76	295	11.7	187	5242	21724	5.3	48	787	1141
4000-18000	0.0			!	1.0	70	70	394		78	20141	20713	0.8	78	371	110
5000-14000 I	1.2	70	79	70 1	1.2	197	246	295	8.2	78	19274	19915	4.1	78	275	761
4000-17000 I	0.4	164	144	164	0.4	131	131	131	8.2	1640	10373	10061	4.4	457	358	1200
7000-18000	0.4	164	164	144	0.6	326	329	320	4.4	1575	17367	17553	3.3	164	492	1476
8000-19000 I	0.0			•	1.2	164	164	164	•••	2854	15712	14877	4.2	144	492	100
9000-20000 I	0.4	144	164	144 1	0.4	320	326	320	4.1	1440	15254	15748	1.2	164	238	497

1200Z

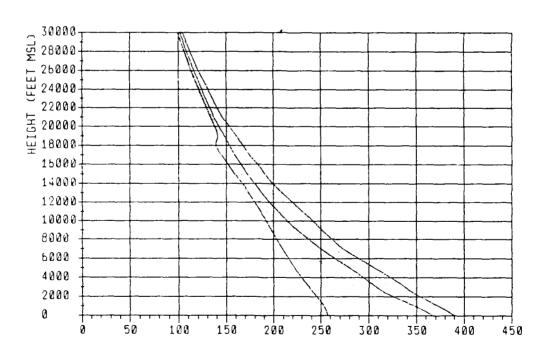
FIGURE B-16-2-D

B-257

N PERCENTILES

NO DATA AVAILABLE

N (N-Units) 0000Z



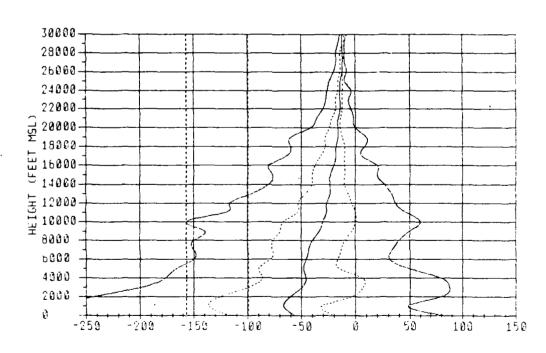
N (N-Units) 1200Z

FIGURE B-16-3-A B-258

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-16-3-B B-259

0000Z

HST	1	N PERC	ENTILES			ſ	DND	H PERCEN	TILEO		11		OCCURRE	ENCE
FT MML	1 1%	10%	Sox	90%	** *	1 1%	10%	50%	90%	77 %	1.1	DUCT !	SRLR I	
BFC-500	1259.37	340.00	372.29	301.04	391.50	1-414.00	~107.14	-52.00	-10.42	116.07		0.3	13.2	13.2
500-1000	1254.18	347.01	343.54	372.75	384.70	1-254.54		-54.16	-23.30	22.91	ii	9.3	15.4	3.4
	1253.50	332.38	353.00	344.50	375.20			-42.50	-31.25	38.54	- 11	10.9 1	25.4	4.0
1500-2000	1250.00	310.19	342.19	355.19	345.00	1-242.44		-44.44	-27.08	42.50	- 11	11.3	24.5	7.4
2000-2500	1247.39	300.54	330.38	344.49	354.87	1-244.71	~137.50	-62.50	-6.25	71.66	11	12.0 1	23.9	11.4
2500-3000	1242.49	274.38	319.31	334.75	345.39	1-243.75	-120.63	-54.16	4.17	70.27	- 11	7.4 1	20.7 1	17.0
3000-3500	1230.00	200.04	310.04	324.00	330.42	1-200.00	~104.14	-47. 71	10.42	106.70	1.1	5.7 1	14.2	10.4
3500-4000	1234.39	202.79	303.30	318.34	332.54	1-200.00	-95.83	-45.63	10.42	86.54	11	4.0 1	10.4 1	17.2
4000-4500	1230.79	276.00	294.75	311.30	324.70	1-177.21	-91.44	-45.63	10.42	77.08	-11	3. + :	8.7 I	14.7
4500-5000	1227.70	269.75	290.75	303.00	314.27	1-205.23	-87.50	-45.83	4.17	97.6 5	11	4.0 !	10.0	17.7
5000-4000	1223.00	257.30	270.30	272.00	304.00	1-140.41	-67.50	-47.91	-14.50	52.27		4.7 1	13.6	7.9
4000-7000	1214.20	242.10	243.04	274.90	287.50	1-154.25	-79.32	-45.83	-14.64	31.25	-11	3.4 1	10.7	0.4
7000-8000	1211.20	227.80	249.10	243.50	273.00	1-150.00	-79.95	-43.36	-13.20	34.02	1.1	3.4 1	11.3	7.2
B000-7000	1204.50	215.10	234.60	250.70	259.00	1-150.00	-76.69	-37. 77	-4.77	43.34	11	4.0 1	12.3 /	11.3
9 000-10000	1178.40	205.60	221.90	237.60	247.80	1-146.74	-70.05	-33.33	0.00	50.00	11	2.3 (9.7 I	17.1
0000-11000	1192.90	197.00	211.60	224.90	234.90	1-150.00	-44.44	-29.75	0.00	59.90	-++	4.0 1	10.7 1	22.4
1000-12000	1185.90	190.30	201.00	216.70	224.40	1-124.49	-83.30	-23.44	0.00	46.61	- 6.1	2.6 1	7.0 1	18.3
2000-13000	1179.90	183.20	193.30	204.80	214.40	1-107.87	-50.00	-23.30	-3.26	39.97	1.1	1.6	4.9	15.0
5000-14000		176.20	184.70	197.70	205.90	1 -96.74	-46.61	-23.30	-6.64	33.33	11	1.7 1	3.4 1	13.9
4000-15000	1145.20	147.80	177.10	189.20	194.30	1 -73.43	-39.97	-23.30	-6.64	27.95	1 1	0.7	1.0	10.4
5000-16000	1156.70	163.90	169.80	181 - 20	188.70	1 -63.33	-40.10	-20.05	-10.03	14.44	-++	0.9 1	2.1	7.7
17000	1149.40	150.50	143.40	173.50	180.30	1 -74.99	-34.59	-19.92	-10.00	17.96	11	0.3 (1.7 1	5. 4
7000-19000	1142.80	153.00	154.90	145.40	172.20	1 -40.00	-31.95	-17.94	-10.00	7.97	1.1	0.0	0.4	5.0
9000-19000	1130.30	147.20	151.20	150.50	145.10	1 -43.97	-28.04	-14.01	-10.00	8.05	1 1	0.0 1	1.4	6.6
9000-20000	1141.10	142.30	145.30	151.40	157.40	1 -50.00	-27.96	-14.01	-12.48	7.37	- 11	0.0	0.1	2.3
0000-21000	1134.50	137.70	140.30	144.70	150.00	1 -38.04	-23.98	-16.01	-13.98	0.00	-11	0.0 1	0.0 1	2.2
1000-22000	1132.10	133.10	133.50	139.20	144.20	1 -33.98	-20.00	-14.06	-12.03	-1.75	11	0.0 :	0.3 1	2. 1
2000-23000	1127.00	126.60	131.00	134.20	138.32	1 -30.00	-18.04	-13. 🕶	-12.03	-3. 90	11	0.0 1	0.0 1	1.3
B000-24000	1123.10	124.10	124.40	127.10	133.04	1 -26.01	-17.94	-13.70	-11.95	-4.02	- 11	0.0 1	0.0 1	0. 🛡
1000-25000	1114.07	120.00	122.00	124.30	127.55	1 -24.54	-16.01	-13.70	-11,95	-5.74	_11	0.0 1	0.1 1	0.9
3000-26000	1115.10	114.00	117.90	117.90	122.53	1 -20.00	-16.01	-13.90	-11.95	-8.02	11	0.0 1	0.0	0.1
b000-27000	1111.40	112.20	113.90	115.00	118.04	1 -20.00	-14.06	-12.03	-11.95	-10.00	11	0.0 1	0.0 1	0.1
	1107.20	108.00	109.90	111.00	113.60	1 -18.02	-13.78	-12.03	-10.00	-10.00	1.1	0.0 1	6.0 1	0.0
	1103.60	104.50	106.00	107.50	100.74	1 -16.01	-12.03	-11.95	-10.00	-10.00	2 2	0.0 1	0.0 1	0.0
7000-30000	1100.40	101.10	102.40	104.00	105.14	1 -14.06	-12.03	-11.95	-10.00	-10.00	-11	0.0 1	0.0 1	0.0
	1 97.20	97.90	99.30	100.70	101.60	1 -13.98	-12.03	-10.00	-10.00	-6.05	-11	0.0 1	0.0 1	0.0
	1 93.90	94.60	74.00	97.40	70.30	1 -14.01	-12.03	-10.00	-10.00	-7. 9 7	1.1	0.0 1	0.0 1	0.0
	1 90.20	91.00	72.50	94.10	74.70	1 -13.98	-12.03	-10.00	-10.00	-6.05	- 1.1	0.0 1	0.0 1	0.0
	# 87.10	87.70	89.20	90.50	71.10		-11.95	-10.00	-10.00	-7.97	- 11	0.0	0.0 1	0.0
4000-35000	1 65.10	85.70	84.40	87.60		1 -14.01	~11.95	-10.00	-6.05	-7.97	11	0.0 (0.0 1	0.1

1200Z FIGURE B-16-3-C B-260

NO DATA AVAILABLE

0000Z

BARE	,		DUCT	'B PROENT IL	.58)		SRLF THK PE	H ERCENT II	LES	ı		NORM THK PI	NL ERCENT I	LES :	1	SUS THE P	ERCENTI	LES
FT HEL	i	1/RD	10%	50%	POX I	XFRO	LOX	Box	90%	!	XFRO	10%	50X	90%	XFR0	10%	50x	90%
aFC-500	1	8,3	144	341	636	13.2	78	341	1132	ī	95.6	492	2015	34770	13.2	197	341	492
500-1000		4.3	197	492	937 J	12.0	78	391	1280	1	5. 7	98	4134	34264	1.0	197	394	591
1000-1500		8. 6	100	571	974 I	15.7	78	492	1101	1	7.4	78	2983	13229	3.1	325	837	2774
1500-2000	i	4.9	197	541	787 1	1 . 4	70	591	1101		14.3	78	1870	9901	4.4	335	984	1474
2000-2500	ı	4.7	177	492	709 1	10 3	76	394	1083	ι	13.9	70	1870	11221	5.7	118	884	1579
2500-3000		4.4	197	472	797 1	9.9	78	295	1063	1	17.4	76	1473	8543	7.9	70	1033	2134
3000-3800	i	2.7	197	293	489	7.3	76	394	994	i	12.7	70	1473	15732	7.3	130	1101	1975
3800-4000	i	2.7	197	394	487 1	4.4	¥-5	394	884		12.3	70	2659	17848	4.3	90	984	1575
4000-4800	i	2.0	70	344	964	5.2	78	492	844	•		70	4201	18770	4.4	98	640	1505
4500-5000	t	2.7	70	344	492	4.4	70	295	784	İ	16.7	197	3494	30250		70	295	1309
B000-4000	1	3.0	70	197	571 1	0.6	78	394	719	1	18.0	130	4724	27541	5.2	78	994	1473
4000-7000	ı	3.1	76	295	492 1	0.3	70	443	954	t	11.4	76	3474	28774	3.7	78	591	1674
7000-8000	1	3.0	70	244	492 1	7.7	70	472	709		11.3	70	2244	27593	1 4.3	78	487	1732
8000-T000		2. 7	70	197	304 1	7.7	76	394	571	1	14.7	177	2754	24707	4.9	149	994	1870
9000-10000		3. 1	70	197	374		70	295	571	•	14.4	70	1476	25792	1 11.7	76	492	1240
10000-11000	1	3.7	70	197	335	7.1	70	197	374	•	22.7	70	3740	24837	12.3	78	687	1575
1000-12000	1	2.4	70	197	275	5.9	70	275	443	•	16.4	70	3547	23454	11.3	76	391	1476
2000-13000	i.	1.0	78	197	295	3. 7	70	197	305	1	13.6	70	8464	22040	1 7.4	78	884	1376
3000-14000	1	1.4	70	70	197 (3.0	76	197	298	ı	11.7	76	7613	21004	9.1	76	797	1300
14000-18000	t	0.7	70	70	275	0.9	70	197	197	ŀ	8.4	612	20210	20801	1 4.6	70	487	1112
5000-14000	1	0.9	70	70	295	2.0	78	140	335	ī	7.7	70	19029	19817	5.1	70	472	784
4000-17000	ŧ	0.3	164	197	230 1	1.4	78	164	295	•	6.4	1457	18207	10042	1 3.7	164	472	1090
7000-18000	i	0.0			1	0.6	144	144	144	ŧ	4.3	1230	17307	17061	i 3.7	144	492	1017
8000-17000		0.0			1	1.4	164	164	320	1	4.7	2280	14074	14877	1 5.4	164	492	784
1000-20000	•	0.0			i	0.1	144	144	144		2.2	1247	15420	15748	0.9	144	410	492

1200Z

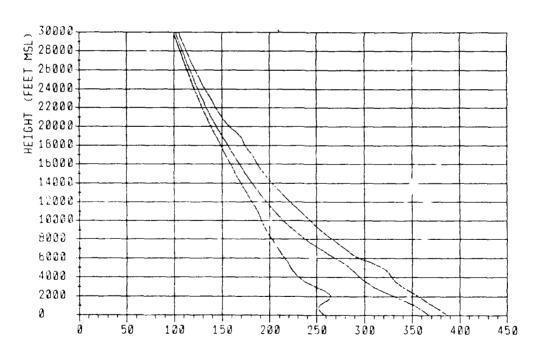
FIGURE B-16-3-D

B-261

N PERCENTILES

NO DATA AVAILABLE

N (N-Units) 0000Z



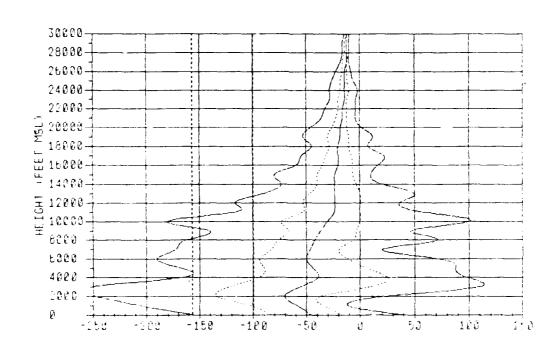
N (N-Units) 1200Z

FIGURE B-16-4-A B-262

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-16-4-B B-263

0000Z

HST FT HSL	1 1%	N PERC	ENTILES SOX	90%	99%	1 1%	DND 10%	H PERCEN SOX	TILES TOX	992	11	PERCENT DUCT I	OCCUR!	
9 FC-500	1257.10	342.50	371.49	381.09	700 40	1-147.33	-64.82	-43.75	-0.93	48,77		2.0	7.5	9.0
	297.07	355.42	344.75	373.22		1-107.50	-72.71	-43.75	-20.44	7.47	ii	0.0 i	1.4	
	1326.75	344.37	357.50	344.32		1-213.63	-00.75	-50.00	-29.14	-10.42	- i i	2.7	4.4	
1500-2000	1314.32	335.37	340.17	350.25		1-205.50	-127.91	~62.50	-33.33	-7.75	11	7.5 i	17.8	
	1303.66	322.50	337.19	347.99		-200.03		-72.91	-37.50	14.50	ii	11.2	24.1	
2500-3000	1276.43	304.49	323.50	337.00		1-239.10		-72.91	-14.44	33.33	- i i	11.6	24.2	
	1244.95	293.11	312.19	324.21		1-277.49		-40.41	6.25	115.14	ii	11.2	19.3	17.1
	1242.10	282.25	304.19	318.54		1-107.50	-104.25	~47.71	20.63	131.00	- 11	4.4	20.3	25.1
	1244.47	276.64	297.04	312.50		1-174.33		-37.50	27.00	84.66	- 11	3.2 1	13.4	26.2
4500-5000	1237.23	271.11	292.50	307.45		1-183.91	-87.58	-37.50	27.08	111.79	- 11	3.7	10.2	32.1
5000-4000	1223.57	261.64	283.50	297.11	323.04	1-168.50	-89.58	~43.75	6.25	79.51	11	3.2	16.6	19.0
6000-7000	1215.50	248.20	240.30	282.00	299,99	1-200.00	-93.75	-50.00	-7.71	66.22	11	6.4 1	17.6	12.3
7000-8000	1208.70	227.28	253.00	247.56	280.74	1-148.75	-03.33	-47.91	-14.44	27.00	11	7.5 i	15.5	
8000-9000	1201.37	214.50	234.40	253.20	245.04	1-173.34	-74.49	~43.23	-3.24	74.78		7.0 1	13.4	13.7
9000-10000	1195.27	205.70	223.30	239.20	250,54	1-139.97	-44.44	-36.71	0.00	47.69	11	3.2	12.3	10.7
10000-11000	1172.14	197.20	212.30	226.70	240.00	(-183.33	-73.30	-30.07	0.00	100.00	11	6.4 1	13.9	24.1
11000-12000	1186.14	170.00	203.10	217.60	229,91	1-116.66	-53.26	~23.30	3.39	97.75	11	2.1 1	7.0	20.3
12000-13000	1150.20	183.70	195.10	200.30	210.83	1-114.26	-54.44	-24.54	0.00	34.71	- 11	2.1 1	5.7	14.0
13000-14000	1173.94	174.98	184.40	200.00	210.02	1 -00.00	-46.41	~23.30	0.00	44.72	11	0.0 (3.2	17.1
14000-15000		170.40	179.40	192.30	200.70	1 -74.60	-37.97	-23.30	-3.39	14.66	- 11	0.0 1	2.1	12.3
15000-14000	1162.40	164.80	172.45	183.90		1 -73.30	-39.97	~20.05	-4.64	12.20	11	0.5 1	1.1	10.2
14000-17000		159.70	144.40	177.10		1 -55.91	-33.33	~17.72	-5, 94	23.93	: :	0.0 1	0.5	
17000-18000	152.10	154.30	140.35	149.40	179.71	1 -33.70	-30.00	~20.00	-8.05	17.11		0.0 1	0.0	
18000-19000		140.80	154.10	142.50		1 -47.77	-28.04	-18.04	-7.97	11.63	- 11	0.5 1	0.5	
19000-20000	1141.70	143.40	147.00	155.47	164.96	1 -51.56	-30.00	-18.04	-11.95	3. 90	- 11	0.0 (0.0	4.3
20000-21000		130.40	142.20	148.87		1 -45.54	-26.01	-17.94	-11.95	0.00	11	0.0 1	0.0	3.2
21000-22000	1132.30	133.00	137.10	142.50	147.53	1 ~43.51	-22.03	-14.01	-10.00	-2.03	11	0.0 1	0.0	
22000-23000	1128.00	127.30	132.20	137.10		1 -27.55	-20.00	-15.74	-11.95	-3. 🕶	- 11	0.0	0.0	
23000-24000		124.60	127.40	131.70		1 -28.04	-20.00	-14.06	-11.95	-3.78	1 1	0.0 1	0.0	
24000-25000	1119.20	120.20	122.70	126.10	124.15	1 -28.04	-10.04	-13.98	-11.95	-4.00	 	0.0 (0.0	2.7
25000 -24000		116.20	118.50	121.30	124.27	1 -24.06	-17.96	-13. 79	-11.95	-4.44	11	0.0 1	0.0	0.0
	1111.50	112.40	114.40	114.80		1 -20.00	-16.01	-13.98	-11.95	-0.50	- 11	0.0 1	0.0	
	1107.30	100.20	110.10	112.30	114.39	1 -17.96	-14.06	-12.03	-11.95	-10.00	- 11	0.0 (0.0	
20000-29000		104.50	104.20	107.50	109.43	1 -14.01	-13.98	-12.03	-10.00	-10.00	11	0.0 }	0.0	
29000-30000	1100.50	101.20	102.60	104.10	105.50	1 -14.06	-12.03	-11.95	-10.00	-10.00	-11	0.0 1	0.0	0.0
30000-31000		97.90	99.30	100.70	101.00	-13.90	-12.03	-10.00	-10.00	-7.97	- 11	0.0 i	0.0	0.0
	93.92	94.70	96.00	97.40	98.30	1 -17.52	~12.03	-10.00	-10.00	-7.97	- !!	0.0 1	0.0	
	90.40	91.10	92.60	74.10		1 -12.03	-12.03	-10.00	-10.00	-7. 98	11	0.0	0.0	
	87.40	88.00	87.20	90.50		1 -12.03	-10.00	-10.00	-10.00	-7.97	11	0.0	0.0	
3400035000	· #5.33	85. 8 0	86.70	97.60	66.3 0	1 -14.01	~10.00	-10.00	-6.05	-7. 9 7	1.1	0.0 1	0.0	0.0

1200Z FIGURE B-16-4-C B-264

NO DATA AVAILABLE

0000Z

			DUCT	*			984				NORP						
DAGE	1		THK PE	INCENTIL	.50	!	THK P	ercent I		,		PERCENT I		i		ERCENT I	
FT HOL	1	XFRE	10%	50%	90% I	XFRG	10%	50X	POX	I KIPR	9 10%	30%	90%	L MFRO	10%	50%	901
SFC-500	ī	2.0	46	243	243 1	7.5	44	243	577	70.		2999	35219	9.0	1/62	341	499
500-1000	1	0.0			1	0.5	1062	1063	1083	1 2.		2450	13187	1 1.1	295	344	394
1000-1500	1	2.7	394	884	1004	5.3	70	984	1841	1 0.		10234	10234	0.0			
1500-2000	1	5.3	197	394	679 1	15.0	78	204	1476	1 2.		1101	11221	1 1.1	295	443	57
2000-2500	1	7.5	244	541	735 1	10.2	70	591	1083	ı ∎.		1917	19272	1 2.1	571	1329	244
2500~3000	1	5. 7	374	407	-	10.2	70	571	784	1 11.		1063	7618	1 7.0	667	1083	173
3000-3500	1	5.3	100	394	571 1	7.6	78	394	715	1 12.		884	10447	1 8.4	78		195
3500-4000		2.1	275	374	871 1	14.4	78	394	1083	1 17.		1033	7754	1 11.2	512	1083	191
+000-4500	1	1.6	394	571	487 1	5.3	79	492	755	ı ₹ .		767	20424	1 7.5	98	787	196
4500-5000		2.1	275	492	787	5.3	108	244	457	24.	7 90	3494	25778	1 13.4	167	591	176
5000-4000	1	2.1	275	293	571	11.0	325	571	854	1 14.		2313	29561	5.9	76	784	192
4000-7000	i	5.7	70	374	492 (11.2	78	374	487	1 10.		2047	14023	3.2	591	487	100
7000-8000	i	4.0	70	275	492	10.2	78	275	492	1 13.		2557	14410	1 4.4	254	ブロフ	232
8000-T000		5.3	70	275	482 1	11.2	96	344	487	1 10.		1949	26175	1 8.4	96	837	167
9000-10000	1	2.7	76	275	295	10.2	78	197	571	1 15.	o 90	787	25444	1 12.3	78	492	113
0000-11000	1	5. 9	70	197	492	12.0	78	197	394	1 25.		3396	24844	1 12.3	70	687	149
1000-12000		1.6	70	295	295	4.4	78	245	443	1 15.	5 70	8478	2 38 23	1 11.8	70	984	157
2000-13000	1	1.4	70	78	197	4.3	70	197	492	1 16.		4063	22837		76	738	140
3000-14000		0.0				2.1	70	197	197	1 13.		21047	21487	1 10.2	70	591	110
4000-15000	•	0.0				2.1	76	197	197	1 12.	3 70	20043	20801	5.3	78	394	116
5000-14000	1	0.5	70	70	78	0.5	197	197	197	1 5.		11434	19817	7.5	70	673	104
4000-17000	1	0.0				0.0				! ♥.		18373	18032	7.5	230	434	137
7000-18000	1	0.0			(0.0				1 7.		17307	177 79	1 4.	164	492	114
8000-19000	1	0.8	164	164	164 1	0.5	164	164	144	1 .		5413	16470	1 4.4	164	492	77
7000-20000	1	0.0			1	0.0				1 3.	2 15072	15420	15564	1 2.7	164	320	45

1200Z

FIGURE B-16-4-D

AP PERCENT OCCURRENCE FREQUENCY

NO DATA AVAILABLE

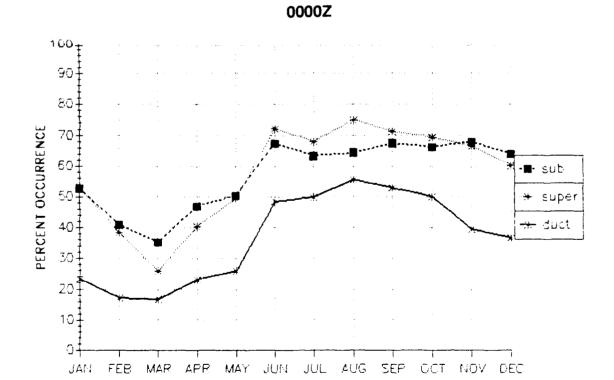


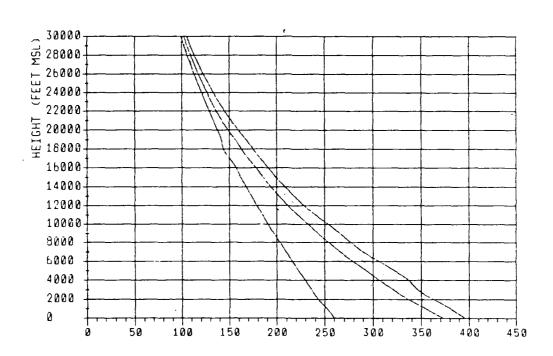
FIGURE B-16-5 B-266

1200Z

N PERCENTILES

NO DATA AVAILABLE

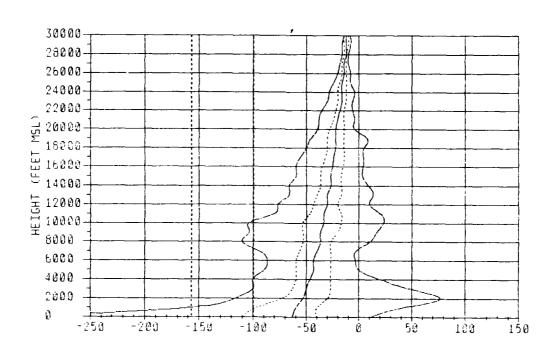
N (N-Units) 0000Z



N (N-Units) 1200Z

FIGURE B-17-1-A B-267

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-17-1-B B-268

MANAUS WET SEASON

NO DATA AVAILABLE

0000Z

SEC-500 262, 25 365, 69 378, 06 388, 50 399, 19 -458, 31 -125, 00 -64, 58 -27, 08 107, 12 15, 1 26, 7 500-1000 257, 66 555, 57 269, 69 386, 06 390, 68 -160, 41 -100, 00 -62, 50 -79, 58 -0.00 12, 6 13, 2 1500-1500 255, 87 343, 68 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 88 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89 349, 89	HOT FT MSL	: 1%	N PERC	ENTILES 50%	90%	99%		DND 10%	M PERCEN	TILES 90%	99%	٠,	FERCENT DUCT	OCCURS SRLF	ENCE
500-1000 237.66 355.57 247.69 386.06 390.88 -100.90 -62.50 -79.58 0.00 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		·													505
1000-1500 255.87															6.6
1500-2000 248.98 322.88 349.88 360.88 372.75 -132.42 -93.75 -58.37 -79.58 -6.25 1.8 8.8 2000-2500 244.39 325.56 140.75 351.75 154.01 -122.91 -79.16 -54.16 -53.37 -79.58 -6.25 0.2												1			1.4
2500-25000															٠. 5
2500-5000															1.1
3006-3500 (236.59 307.00 123.58 514.06 126.56 127.88 (-95.82 -60.00 -29.16 4.77 1.16 13.500-4000 (233.09 300.69 316.06 526.69 577.88 (-95.82 -60.41 -47.91 -27.08 10.42 0.7 1.2 4000-45(3) (229.69 294.25 308.88 719.38 331.89 -91.79 -58.57 -45.83 -27.08 10.42 0.7 1.2 4500-5000 (226.58 288.00 302.19 312.49 325.11 (-102.89 -60.41 -43.75 -27.08 12.50 1.0 1.5 5000-6000 (221.10 276.88 291.25 302.69 315.45 -89.50 -60.41 -43.75 -27.08 -7.75 0.7 1.0 1.5 5000-6000 (221.10 276.88 291.25 302.69 315.45 -89.50 -60.41 -43.75 -27.08 -7.75 0.7 1.0 1.5 5000-6000 (201.10 284.00 283.75 277.88 288.25 297.95 -90.14 -88.33 -40.40 -43.75 -27.08 -7.75 0.7 1.7 7000-6000 (208.20 251.10 265.38 275.50 285.25 -93.56 -54.16 -39.56 -27.08 -7.06 -4.17 0.7 1.7 7000-6000 (208.20 251.10 265.38 275.50 285.25 -93.56 -54.16 -39.56 -27.08 -7.10 0.5 1.6 1.8 8 8000-9000 (201.17 238.10 252.80 262.75 277.38 -106.77 -52.25 -36.71 -27.30 12.68 1.1 2.6 9000-10000 (194.78 225.60 241.10 250.40 261.40 -100.00 -50.00 -76.59 -20.05 19.92 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0														4.ê	1.2
3500-4000 :233.09 300.69 316.06 226.69 217.88 :-95.87 -60.41 -47.91 -27.08 10.42 0.7 1.2 4000-4500 :227.69 294.25 308.88 719.38 331.8991.79 -58.57 -45.83 -27.08 10.42 0.7 1.2 4500-5000 :226.58 288.00 302.19 312.49 325.11 :-102.89 -60.41 -43.75 -27.08 12.50 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5													0.5	2.4	1.7
4500-4500 229.69 294.25 308.68 319.38 331.89 -91.79 -58.57 -45.63 -27.08 10.45 0.5 1.6 1.5 4500-5000 226.56 288.90 302.19 312.49 325.11 -102.89 -60.41 -43.75 -27.08 12.50 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1															1.6
4500-5000 : 226.56														1.2	2.1
5000-6000 (221.10 276.88 291.25 302.69 313.43 -87.50 -60.41 -43.75 -27.08 -7.73 (0.1 1.0) 6000-7000 (214.40 263.75 277.88 288.25 297.93 : -90.14 -58.33 -41.66 -27.08 -4.17 (0.7 1.7 7000-8000 (208.20 251.10 265.38 275.50 285.25 -93.36 -54.16 -39.58 -27.08 -7.20 (0.5 1.8 8000-9000 (201.17 738.10 252.80 262.75 275.38 -106.77 -753.25 -36.71 -23.30 13.28 (0.5 1.8 8000-10000 194.78 225.80 241.10 250.40 261.40 -100.00 -50.00 -26.59 -20.05 19.92 (0.5 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5													0. T		2.9
\$6000-6000	4500-5000	:226.56	288.90	302.19	312.49	325.11	:-102.89	-60.41	-43.75	-27.08	12.50	:	1.6	1.5	3. 3
7000-8000				291.25				-60.41	-43.75	-27.98	-7.73			1.0	i. 4
8060-9000 (201.17 238.10 252.80 242.75 275.38 -106.77 -52.25 -56.71 -22.30 (2.28 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.									-41.66	-27.0 ₽			0.7	4.7	:.5
9000-10000 :194.78							-93.34		-39.50					≘	I. 1
10000-11000 :188.50											:2.28		:	2.4	2.4
10000-11000 :188.50	9000-10000	194.78	225.60	241.10	250.40	261.40	-100.00	-50.00	-56.59	-20.05	19.92		ે.∻		= . 1
11000-12000 :187.32	10000-11000	. 188.50	215.40	230.50	239.40	249.49	:-103.17	-50.00	-33.35	-16.66	16.60		1.6		7.4
12000-13000 :174.70	11000-12000	192.32	205.40	219.70	226.30	206.70	-79.95	-40.01	-73.33	-19.92					4
13000-14000 :171.10 187.30 200.40 208.00 215.20 -66.66 -56.71 -26.69 -16.66 10.02 01 8 140.00 199.80 199.80 205.00 -63.28 -36.71 -26.69 -16.66 A.64 0.2 0.7 15000-16000 :165.60 179.20 191.80 199.80 205.00 -63.28 -36.71 -26.69 -16.66 A.64 0.2 0.7 15000-16000 :155.40 165.10 176.00 182.70 186.10 -56.74 -33.98 -24.06 -15.04 6.02 0.2 17000 18000 :155.40 185.10 176.00 182.70 186.10 179.48 -51.95 -23.98 -13.98 2.01 0.2 17000 18000 180.40 185.20 160.10 174.50 179.48 -51.95 -23.98 -13.98 2.01 0.2 18000-19000 :145.20 160.50 166.50 171.59 -47.96 -30.90 -22.03 -13.98 0.97 1.5 0.2 19000-20000 140.60 146.00 153.20 158.90 165.40 -41.95 28.04 -22.03 -13.98 0.97 1.5 0.2 0.2 19000-20000 :136.10 140.50 146.70 153.20 158.90 165.40 -41.95 28.04 -22.03 -13.98 -4.06 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	12000-13000	: 174.70	195.60	209.70	217.70	225.77			-29.95	-19.92					
14000-15000 :145.60	13000-14000	1171.10	187.30	200.40	206.00	215.20	-66.66								4
15000-16000 :160.40	14000-15000	: 165.60	179.20	191.80	198.80	205.00	-63.28	-36.71	-26.69	-16.00	A. 64				1.4
14000-17000 :155.40	15000-16000	:160.40	171.90	183.70	190.50	196.20	-60.02	-30.59	-26.69	-16.55	5.26		>. 4	2	2.5
17(00-18000 :150.40 158.30 168.10 174.30 179.48 -51.95 -21.95 -23.98 -13.98 2.01 1.5 0.2 180.00 19000 :145.20 160.50 160.50 161.50 171.57 -47.96 -30.90 -22.03 -15.98 0.97 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	16000-17000	: 155.40	145.10	176.00	182.70	186.10	-50.74	-33.98	-24.06	-15.04					5
18000-19000 :145.20	17000-18000	150.40	150.30	168.10	174.30	179.48	-51.95	-31.95	-23.9B	-13.98					2,9
19000-20000 140.60 146.00 153.20 158.90 165.40 -41.90 -28.04 -22.05 -15.98 -1.95 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.	18000-19000	145.20	152.20	160.50	166.50	171.29	-47.96	-30.00	-22.63	-15.98	97				4.~
29000-21000 :136.10	19000-20000	140.60	146.00	153.20	158.90	165.40	~41.95	-28.04	-22,05	-12.98					2.4
21000-22000 121.90 125.20 140.80 145.60 149.50 1-37.96 -22.96 -36.04 -13.98 -5.60 122000-23000 127.67 130.40 135.10 159.70 143.30 -33.98 -22.03 -17.96 -12.03 -6.02 01 0.1 0.1 0.1 0.10 0.00 0.1 0.1 0.1 0.	20000-21000	:136.10	140.30	146.70	152.10	156.30	-40.00	-26.01	-20.00	-15.98	-46				3.3
22000-23000 :127.67	21000-22000	131.90	125.20	140.80		149.50									1.1
23000-24000 122.80 125.30 129.50 135.80 137.10 1 -30.00 -20.00 -16.01 -12.03 -5.94 0. 0. 0. 24000-25000 118.70 120.90 124.30 128.00 139.80 -27.96 -18.04 -16.01 -11.95 -6.02 0.5 0.5 0.5	22000-23000	. 127.67	130.40	135.10	139.70	143.30	-33,98	-22.03	-17.76	-12.33					
24000-25000 118.70 120.90 124.30 128.00 130.80 -27.96 -18.04 -16.01 -11.95 -6.02 -0.5 0.5	23000-24000	.122.BO	125.30	129.50	137.80	137.10	1 -30.00		-16.01						. , ,
	24000-25000	.118.70	120.90	124.30	128.00	130.80	-27.96	-18.94							1.2
-25000-26000 :114.80	25000-24000	:114.80	114.80	117.70	123.00	125.45	-22.03	-17.96	-14.06	-11.95	-7,07		0.0		0.4
	27000-28000	106.91													. O.E
	28000-29000	1103.30	104.90	106.80	108.90										
29000-30000 : 99.90 : 101.40 : 103.20 : 103.00 : 104.30 -14.01 -13.98 -12.03 -10.00 -8.05			101.40	103.20	105.00	106.30									
	30000-31000	: 96.57	98.10	99.70	101.36	102.50	14.0x	~12.03	-11.95	-10.00	-7,97	-+	0.		0.2
													•		. 4
															77.0

1200Z FIGURE B-17-1-C B-269

NO DATA AVAILABLE

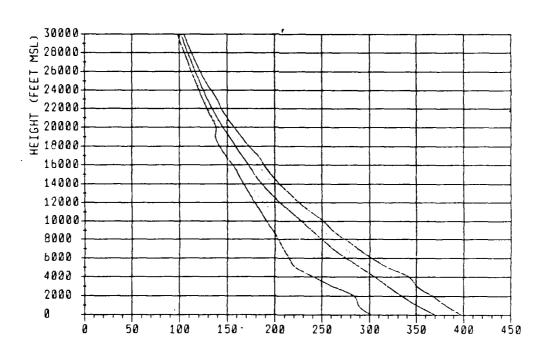
0000Z

BASE		DUCT THK PE	S SCENT !	.€ 5		SRLF THI PE	S RCENTI	_E.S .		NORM	AL ERCENTI	LES :		SUB THK PI	ERCENT I	LES
FT MSL .	%FRC	16%	50%	90%	%FRC	10%	50%	90% .	አ <u></u> ፑቶር	10%	50%	90%	%FR0	10%	50%	90%
SFC-300	13.4	20	20	. 67	26.7	20	118	984	90.1	610	34877	34995 :	6.7	20	98	541
500-1000 :	1.8	118	492	591	4.8	78	541	1004 :	6.3	98	9711	34571 :	0.7	98	443	591
1000-1500 :	1.4	295	59:	689	5.4	98	492	1024 ;	8.2	1870	18946	34089	0.8	98	394	2165
1500-2000 :	். 8	:97	394	1080 .	3.5	98	492	856 :	7.2	689	29250	23695	0.7	98	591	2756
2000-2500 .	0.3	197	794	491	1.7	98	443	1053	4.7	187	32809	33203 :	0.5	295	640	1470
2500-3000 :	0.5	98	295	295	0.9	98	295	856 :	2.3	98	15814	32613 :	0.8	148	1673	2146
3000-3500	0.0				0.8	108	591	886 :	1.3	167	17717	32051 .	0.6	98	1230	1575
3500-4000 :	Ú.3	98	246	886 :	0.5	98	394	591 :	1.5	98	7185	31421 .	0.8	98	689	1181
4000-4500 :	0.1	295	295	295 .	ં. છ	98	394	689 :	1.0	46	5315	30929 :	٠ <u>. 5</u>	98	295	689
4500-5000	1.0	157	295	374	1.3	98	197	B27 .	4.4	98	14584	30349 :	2.0	98	295	1004
5000-a000	0.2	295	443	591 :	0.6	78	197	591	2.2	197	7283	29955	0.7	98	295	1378
6000-7 000	0.6	98	295	295 .	1.7	98	295	489 .	1.8	1240	11155	28682	1.1	98	736	::81
7000- 9 000 .	0.4	98	197	294	1.0	98	794	650	2.7	177	11910	27986	1.3	98	787	1871
9 000- 9 000	1.2	96	246	640	2.6	96	447	689	7.8	98	1772	26422 1	2.5	96	689	1575
9000-10000	ં.8	98	197	492	1.7	98	294	68 9	4.3	98	1722	25821	4.3	96	394	1083
10000-11000	1.5	78	:97	394	2.2	96	295	581	a.:	 98	7382	24935 .	7.9	98	787	1575
11000 - 12000	9. I	92	95	197	0.9	115	7.94	57:	79	96	23063	22754 .	1.8	157	551	1457
120 N - 17000	. 4	98	≈e	295	ં. ⊜	98	24e	594 .	5.1	98	22277	22868	2.7	78	75a	1545
2006-14000	0.1	96	9ē	÷s	0.7	يق ب	:45	594	2.6	نَے،	74.5	21805	2.1	φĒ	689	1476
14000-15000	0.7	.9	1.97	197	٠.۵	99	295	194 .	2. a	76	14764	20713	1.8	98	492	1319
18-200 - 16000	>.4	78	98	295	0.2	78	197	195	2.6	197	19725	19895 :	9		591	1280
●000-17 001	ಳ.≎	: 64	: 64	164	0.∄	171	: 64	245	Ī. ē	c	18045	18611	2.4	164	532	984
1.5000-19000		154	164	154	9. Z	164	128	492	5.1	1132	17225	17381	Ξ. ί	154	725	1178
190 000−19000	1.2	164	164	104	υ. <u>:</u>	164	104	164	4.6	451	15912	15437	4.1	: 64	44.	984
1 9 0000 - 200000	0.2	164	164	164	5.0				2.0	2:592	.5.56	15748	1.2	164	410	902

1200Z

FIGURE B-17-1-D

N (N-Units) 0000Z



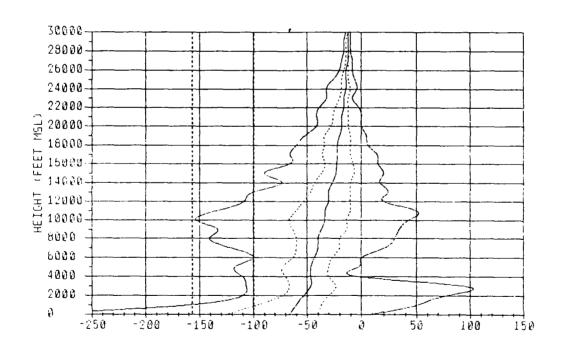
N (N-Units) 1200Z

FIGURE B-17-2-A

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units) 0000Z



DNDH (N-Units) 1200Z

FIGURE B-17-2-B

0000Z

HĀT	:	N FERE	EriT (LEZ			:	ōr₁£	H PETERN	TILES			FERENT	SABBARA	೯೫೯೯	
FT MBL	1 %	16%	50%	90%	99%	1 %	10%	50%	\$0%	\$\$%	::	DuE.T	التوليد المؤلف	المؤال مع	
6FC-500	:262.75	362.87	375.88	288.74	399,96	:-271.66	-135.41	-64.58	-29.16	65.00		12.5	25.6		•
500~1000	: 259.51	351,49	366.50	379.38	192.55	:-T18.00	-118.75	-66.66	-29.50	6.25	٠:	5.6	19.1	2.∌	;
1000-1500	: 253, 59	338.00	355.25	369.56	382.30			-60.41	-77.50	17.50	:	2.6	44.20	1.4	
1500-2000	1248.90	528.69	346,19	340.19	274.47	-132.50	-97,50	-56.25	-31.25	-6.35		1.0 .	7	1.4	
2000-2500	1244.84	321.50	737, 56	251.04	368.93		-77.0 0	-일을 다양	-21,25	-1	. ;	0.5	4.4 .	2 - 50	
2500 - 3000	1240.75	312.97	129:18	342.25	303.61	-100.00	-70.83	-50.00	-27.08	14.50		0.0	1.7 1	2.1	
3000-3500	:236.36	304.27	321.54	333.67	331.69		-66.66	-47.91	-27,08	35.41	1.1	6.49	1.4	6	
3500-4000	232.60	297.27	314.56	226.19	342,25		-64.50	-45.83	~27.09	22.91		0.0	2.1 .	- 1	
4000-4500	. 228. 46	291.37	307.75	319.19		3-102.08	~64.54	-45.83	-29.16	-14.56		1.2	1.4	1	
4500-5000	:223.91	284.65	201.00	311.50	324.43	-116.66	-60.75	-45.83	-29.16	14.50		1	1.5	2.1	٠
5000-6000	.218.10	270.08	298.56	201.00		1-118.75	-70.日本	-45.83	-27,08	-5.56	1 .	9.7	4.5	1.0	
6000-700U	210.48	255.09	273.50	Bo. Co	296.25		-62.50	-47.75	~24,68	3.28	: .	***	2.3	٠.٠	
7000-8000	205.50	240.99	260.75	272.68	285.40		-59.33	~ 2 약 . 첫 🛭	-20.83	19.95	;	1.4	4.2	4.7	
8 000-9000	196.84	227,00	248.40	260.19		-139.97	-56.77	-36.71	-19.92	40.64		- • •	۵٠. ت	e . e	i
9000-10000	199.34	213.90	236.00	247,90	256.90	-133.33	-63.20	-36.59	-13.20	30./1		2.4	5. 3	7. "	
10000-11000	182.66	203.90	205.50	278.80	247.12	144.82	-60.60	-33.33	-13.29	45.25		5.⊌	1.2	11.1	٠.
11000-12000	1176.20	194.40	214.40	225.40	232.72		-56.64	-20.02	-10.00	37.7€		i. ii	6.0	1 4	
12000-15000	169.46	195.41	203.80	214.70	220.52		~50.00	-29, 45	-10,00	20.67		W. D	2.0	~ . :	
13000-14000	162.50	176.50	193.60	205.00	211.46		-46.61	26.65	-19.00	21.00		44.	2.⊌	G	
14000-15000	157.24	172.50	185.70	195.70	200,90	: -74.03	-39.97	-26.50	-4.7*	24.⊹6	1.2	9.9	1. 7	7.6	
15000-14000	:151.66	167.20	177.40	187.50	192.50	-83.33	-36.71	-27, 50	-0.77	13.41			1.7	 a. I	٠.
16000-17000	. 146.45	161.80	171.20	180.10	185.70	-62.01	-33.98	-2.46	-9.34	15, 94				0	
17000-18000	:141.07	155.65	164,20	171.70	177.50	-66.91	-36.01	-22.93	-10,00	13.50		44,000	4.7	٥.:	
18000-19000		149.40	156.60	164.00	149.09		-12.05	-20.00	~10,00	6.02		40.00	1.4 .	5.2	
19000-20000	150.51	144.00	149.70	154.70	161.19	-46.01	-30,00	+20.00	-11.95	9.00		1949 ********	10,400	1,4	٠
20000-21000	124.91	139.90	143.60	149.90	154.87	1 -39.04	-26.01	-18.04	-11,95	9.00		31 . to	5.0	2.5	٠,
21000-22000	121.61	134.00	138.00	143.60	147.89	49,80	-26.01	-17.96	-11.95	-1.98		0.4	0.0	1.4	
22000-23000	:117.41	129.40	132.60	177.60	141.59	-33.98	-22.03	-16.01	-11.95	-4.06	: :	0.4 :	0	0.4	
23000-24000		124.50	127.40	131.90	136.20	-28.26	-16.04	-14.06	-11.95	-4.06		Grand Comment	3,4 .	0.7	
24000-25000	100.00	120.20	122.00	124.50	120.10	-30,00	~18.04	-17.98	~11.45	-5.99		9.7	9.7 (1.8	:
25000-26000	1105.10	116.20	119.50	121.50	124.40	-22.03	-17.96	-13.98	-11.95	-7.97		0.0 :	0.0	્. 4	٠
24000-27000		112.30	114.50	116.90	119.40	: -16,06	-10.01	-17.96	-11.45	-7.47		0.0	0.0	0.4	
27000-28000	97.96	108.10	140.30	112.79	114.60	1 -17.96	-14.06	-12.05	-10,39	-10.00		0.0	0.0	0.4	
28000-29000	94.00	104,50	104.50	108.20	110.00	16.01	-12.98	-12.07	-10,00	-2.97		1,000	100	0.0	
29000-30000	90.79	101.10	102.80	104.50	106.90	1 -16.01	-12.03	-11.95	-10.00	- 155 , Caji		9.00	Section 1	Ø. 9	
50000-31000	87.60	97.00	79.40	101.00	102.10	-14,06	-12.03	- L C. Upp	-10.00	-2,92		• • • • • • • • • • • • • • • • • • •	3, 9		٠.
31000-32000		94.60	96.10	97.70	90.60			-10.00	-10.00	- 7 , 9 -			0.0	0.45	
12000-33000		91,00	92.60	94.20	95.00			-10.00	-10.00	-7.97		0.5	9.0	0.0	
\$3000~34000		87.90	89.20	90.40	91.20	: -12.99	-11.95	-10.00	-10.00	-7.97	::	9.0		0.0	
34000-35000		95.70	86.70	97.60	80.20	1 -18,04	-11.95	-1 (0.000)	-0.05	-7.97	4.5	0.0	9.0	0.0	:

1200Z FIGURE B-17-2-C B-273

NO DATA AVAILABLE

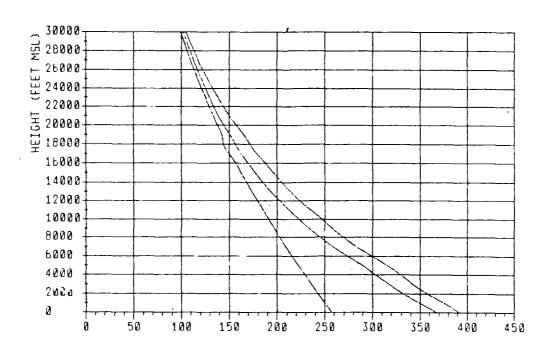
0000Z

BASE .	OUCTS THE PERCENTILES THE PERCENTILES TOR TOX TOX 90%					SALA In PE	S ACENTI.	ES		NGRM THE F	IAL ERCENTI	LES :		SUB The Fr	ERCENT I.	FS
FT MSL :	%FAC	10%	50%	90%	1,280	10.	50%	90%	XERO	1.0%	50%	90%	"FRU	10%	50%	90%
FC -500	:2.5	20	118	610:	25.6	20	217	1189 .	90.3	217	11172	14995 ;	6.2	20	118	421
00-1000 :	2.6	295	44:	686	٠. 9	98	442	. doğ	4.4	49	10925	34581 .	1.7	197	295	1080
00-1500 :	7	295	394	492 .	4.2	98	240	725 :	9.0	98	8210	00922 :	0.7	ごうじ	4.45	689
(4) - 2(4) (1)	0.7	96	344	591 .	3.5	48	492	945 :	7.6	1221	12107	22695	0.7	794	452	241
ore 2 5 00	68.00				O. 7	96	640	1181	4.7	46	5057	22124	50 a 2	2756	2.36	2754
enier Ziani	6.0				C. 7	46	442	HEID .	1.7	46	4526	3241A .	1.7	492	904	1161
CO) = 2 📆 (H)	0.0			1	0. *	295	29:	587 .	1.0	90	11514	31904 :	9.7	98	194	469
da ferr d iejeget	5.4				1.44	1.45	1.50	Bir	≎. €	ΨG	4744	21 22 2 1	0.2	ن ب	46	48
Ç0~4500 °	1.0	295	492	291 .	·/• 7	294	PB:3	384	1.0	254	70.74	5216	9.7	591	984	787
00- 5 000	4	197	275	. 75	:.1	78	96	68°	4.2	69	4770	2000 :	1.0	295	964	1675
		197	344	492	3.2	226	68%	560	6.5	374	5315	20192	6.5	295	295	242
00~7000 .	0.5	295	295	295 .	55.7	492	541	647	2.8	178	3789	26675	1.7	6134	686	2264
¢α, - 6(π/π)	1.4	197	246	295	1.6	46	140	# 17°	3.1	48	2.55.9	27866 .	:.5	ŸĠ	275	1772
والهواب وبرا	2.1	99	295	294	٠. ـ	98	591	÷4.	9.4	96	1260	26471	4.4	- କ	197	1265
zate za rojejsta i	2.4	96	. 74	394 ;	4.5	48	5.42	6 56) () . B	46	1464	26018	7.2	48	5.45	1067
600-11000	7.1	98	197	394	4.7	90	344	6 50 .		76	3247	24627	2.6	98	344	1216
100 12000	2.0	46	295	794	3.0	99	195	417	12.5	ýg.	2445	25615		ΨB	293	1200
ride Lader	0.5	ÝB.	70	99	2.4	197	295	497	W. 5	46	2740	12014	7.5	98	207	1280
n er-i den er		295	295	295	2.0	713	246	294	9.0	94	21096	21765	3. 3	90	797	1476
48 (~ 1.500°)	0.0				1.0	46	98	197	5.4	98	6924	20791	5.E	98	980	1515
ен==н				· ·•	1.7	78	797	205	5.2		19225	19937 :	7.1	99	76?	1076
<i>040</i> =1 6 5000 . 240=17660	0.3		164	164	0.3	: 64	164	104	4.9	694	18271	18731	4.5	144	\$51	1247
a an = 1,20000 °	0.0				6.3	144	164	164	3. 7	2395	7553	17801	3.6	197	492	1542
4#1#1 grj()() H(H) # 1 grj()()()	0.0				1,4	164	164	164	5.9	820	15912	15002	4.2	164	228	1042
nuga yayan Maji⇔2Kobiyi					0.4	164	164	164	1.6	15092	15420	15748	1.1	164	49	656
• 0,1~ <u>2</u> 1,11,11,11,11									4.0		.5420				47.	636

1200Z

FIGURE B-17-2-D

N (N-Units) 0000Z



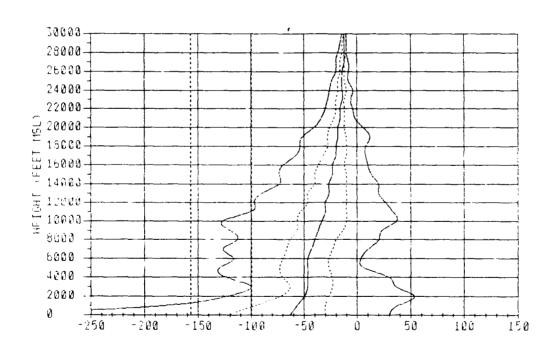
N (N-Units) 1200Z

FIGURE B-17-3-A

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-17-3-B

MANAUS DRY SEASON

NO DATA AVAILABLE

0000Z

ндт		N FERD	ENTILES				מאם	H FERCEN	ITILES		=EACE -	- gosume	ENTE
FT MBL	1 %	10%	5ッ%	90%	79%	17.	10%	50%	90%	49.	೬೮೭*	ラルトラ ・	S_E
SFC-500	. 259.87	359.14	373.06	J85.:9	396.19	-406.25	-143.75	-62.50	-18.75	342.72	.0.4	.7.4	
200-1000	255.74	347.50	364.17	176.97	386.45	-220.00	-112.50	~62.50	-29.16	22.9	5.6	:7.5	o
1000-1 50 0	251.64	335.25	354.19	367.36	376.94	-194.91	-106.2	-69.41	-01.25	10.00	4	:4.	I
1500-2000	: 247.80	325.75	144.15	358. b	268.70	-172.91	~91.0¢	-56.25	-29.16	6.25	<u>.</u> . 4	∃. 5	2
2 000-2 5 00	244.10	317.75	305.75	749. 3	259.64	133.50	~77.96	-かい. ひい	-17.∪ e	1 - 4_	ં.≌	E	2.4
25190-3000	240.10	309.88	327.19	340.75	350.24	-106.25	~66.66	-47.91	-26.67	9.73		4	2.2
3000 -35 00	236.60	SUB.Se	219.25	201.26	341.50	-95.82	-64.98	-45.63	-25.00	2.1.	4		
3500-400 0	233. 25	295.75	5:2.19	525.06	337.80	-108.33	-64.58	-43.75	25.30	3.00			
4000~4 5 00	229.86	289.50	305.50	T.8. %	327.36		00.00	-4:. 🛎	-23.30	167	. =	2. 🕏	1.1
4500-5000	. 22 6.5 0	202.75	298.88	314.72	721.54	-141.66	-70.83	-43.75	-23.44	28.46	1.2	1.1	
5000~6000	220.23	269.88	287.00	299.88	011.50	-125.00	-75.00	-45.80	-17. e	50	:.6	€. →	
6 000-7000	2:3.60	250.00	271.86	284.50		116.66	-70.63	-42.75	-27.06	3.24	· · ·	4. '	
7000 -8 000	207.30	238.80	237.50	270.56	279.50	125.90	-68.40	-43.75	-27.30	8.77	1.2	5.4	1. :
8 000- 9 000	:200.44	224.50	242.50	227.00	266.33	-117.36	-60.02	-19.97	-19.92	19.92	1.1	٠	2.5
9000-10000	194.50	212.50	231.30	244.25	257.81	-119.92	-56.64	-16.59	-13.28	26.54	1.7	4,3	5.7
10000-11000	188.40	202.80	220.50	235.50	242.70	+125.50	-57.89	-75.55	-10.05	37.77	2.3	e. :	1
11000-12000	197.51	193.80	2.9.9	222.80	201.40	-100.00	-50.00	-50.00	-10.50	29.92	4	1.5	4.1
12000-13000	1177.10	185.70	200.40	212.50	220.40	-96.61	-46.74	-29,95	-10.03	20.00	0.2	7.2	٠, ٦
13000-14000		178.40	191.20	205.10	210.90	-86.71	-42.Zo	-26.69	-10.0T	10.00		1.4	Ť. e
14000-15000	166.00	171.70	182.60	194.50	201.52	-73.50	-19.97	-26.50	+19.00	17.55		1 - 1	7.4
15000-16000	160.77	165.60	175.00	186.10	192.90	-73.30	-36.71	-23.30	-17.28	18:	v. :	1.1	5.5
16000-17000	. 155.44	159.9	167.70	178.10	184.90	-67.18	-32.98	-22.00	-11.95	. 47	4 - 2		4.4
17000-18000	150.50	154.20	160.60	170.00	176.20	-60.00	-30.00	-20,50	-10.00	13.00	0.5	0.2	5
18000-19000	: 145.30	148.50	154.10	162.50	168.60	-56.01	-30.00	~18.04	-10.00	12.12	9.5	U-6	٦.6
19000-20000	140.60	143.30	147.90	155.30	150.80	-47.96	-27.96	-17.96	-12.05	4.⊕6	0.1	40,00	3.6
20000-21000	: 136.18	138.50	142.70	148.73	153.80	-18.04	-24.06	-16.01	-12.03	-1.50	0.0	0.1	
21000-22000	131.70	133.90	137.20	142.90	147.52	-32.65	-22.03	-16.01	-12.03	-3.96	0.1	0.2	
22000-23000	127.50	129.40	132.40	137.30	142.00	-30.00	-20.00	-15.94	-11.95	-3.96	9.2	0.0	1.
23000-24000	122.80	124.70	127.60	111.80	136.00	-28.04	-18. Ú4	-15.98	-11.95	-3.98			1.6
24000-25000	118.60	120.40	123.00	126.50	129.90	-26.01	-18.04	-13.98	-11.95	-6.02	0.2	0.5	1.1
25000-26000	114.80	116.40	118.70	121.70	124.70	-22.03	-16.01	-12.98	-11.95	-7,97	• • • • • • • • • • • • • • • • • • •		. 4
26000-27000	.111.00	112.60	114.70	117.20	119.76	-20.00	-16.01	-12.98	-11.95	-7.97	5.0	0.0	2.5
27000-28000	:106.90	108.40	110.50	112.90	115.00	-18.04	-14.06	-12.93	-11.95	-8.05	9.0	0.0	0.2
28000-29000	103.20	104.70	106.50	108.40	110.10	-16.01	-13.98	-12.65	-10.00	-10.00	0.0	0.3	6.1
29000-30000	99.52	101.30	102.90	194.69	104.00	-16.01	-13.98	-11.95	-10.00	-10.00	0.0		
30000-31000	96.10	98.00	99.50	101.10	102.20	-14.06	-12.03	-11.75	-10.00	-7,97	**		· · · ·
31000-32000	91.90	94.70	96.10	97.70	98.60	-2:.95	-12.03	-11.95	-10.00	-7.97			
32000-33000	89.40	91.00	92.50	94.20	95.10	-12.03	-12.03	-10.00	-10.00	-7.97	0.00	5. 5	
33000-34000	95.10	97.90	89.20	90.50	91.23	-13.98	-12.05	-10.00	-10.00	-7.57	9.0	0.0	
34000-35000	82.70	85.70	86.50	87.60	88.20	-17.96	-11.95	-10.00	-8.75	-7,97	0.44	1914.19	5.1
										· • • • • • • • • • • • • • • • • • • •			

1200Z FIGURE B-17-3-C B-277

NO DATA AVAILABLE

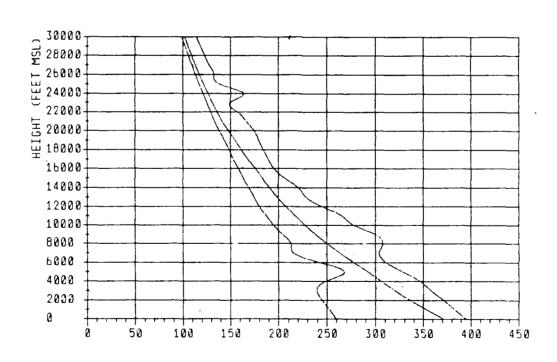
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BASE		DUCT	S RCENTIL	.ES		SALA Tan FE	S RCENTI	ES .		NORM THE P	AL ERCENT :	LES .		SUB THE PE	RCENTI	LES.
FT MSL	1.FRQ	10%	20%	90%	FRO	10%	5.0%	90%	አብድር	10%	5. %	90%	7FRC	1.74	50%	94.%
SFE-500	16.3	20	:18	492	27.7		1:8	966	69.8	118	10136	34995	10.6	2.0	118	492
き りの - 1 うきじ	2.1	295	394	8"	5.9	96	492	464	10.2	98	8:00	14481	1.7	: 58	294	686
1000-1500	2.:	:97	7.94	864	5. O	48	294	1122	10.2	2101	9252	799	1.1	98	55:	111c
15 26 - 2666	1.0	98	295	ಕಿಂಡ	2.4	98	591	1043	7.4	78	5717	37469	1.2	295	7.3 *	2145
2000-2500	ା. ଓ	98	29:	59:	1.6	9€	197	994 .	5.3	1713	10926	22203	1	246	817	£9.34
2500-3000	9.4	492	492	492	1.7	99	78	784	7.2	98	7480	12611	ା.5	98	295	1270
5000-3500		197	295	98 4	0.8	46	589	100€	U. 🖨	98	19:9	27.49	0.7	96	794	1575
7 5 00-4600	0.5	197	447	689	1.2	98	59:	42 5 .	1.3	98	4775	31357	0.7	эg	480	1280
4000-4500	∍. 2	98	591	59:	1.4	98	492	1004	1.8	108	4527	D-998	U. 7	4 2	774	1024
4500-5000	2.0	98	195	591	4.2	98	295	866	5.6	50 5	5756	10149	2.0	99	295	807
5000-6000	1.1	98	295	591	5, 4	98	591	886	3.6	315	5216	30053	1.3	96	445	2016
5 000-7000	1.1	98	295	512		98	49.	767	4.6	98	6496	28754	ž	4è	689	1.7.7€
7000-8000	1.2	98	197	492	3. 1	78	294	797	5.8	78	6791	27790 -	1.9	98	689	1535
8 000 -9 000 .	1.1	96	197	.54	7.5	98	491	59:	6.3	98	369.	26933	4.5	98	238	:476
7 000 - (10000	1. 2	96	295	394	7.9	98	394	610	6.ē	98	3494	25725 -	5.7	128	59:	1250
10000-11000	2.1	98	:97	505	5.4	98	295	472	13.7	98	7285	24935	6.0	98	689	1181
11000-12600	:.5	98	97	293	7.1	99	197	294	7.8	98	48.	27754	6.1	98	689	1280
12000-15000	. 2	: 97	: 67	295	2.6	96	197	492	7.9	98	6237	22868	4.6	99	689	1339
12000 - 1400	0.9	96	98	147	Ξ.δ	ĢĒ.	. 97	- 94	7.7	98	10991	21884	4.5	96	291	1160
14000-15000	9.2	98	10-	. 97	0.6	49	197	-95	5.6	48	20260	2060:	4.1	98	304	1280
15000-1a000 .	9.3	78	98	197	1.0	 98	197	295	5.3	 98	7249	19817	5.0	98	394	1022
16000-17000	0.2	98	121	: 64	. a	95	: 54	164	4.0	13:	19045	:88:5	5.4	164	656	1060
17000-18000	0.3	164	164	164	0.2	104	164	728	4.	820	17061	17555 :	3.6	164	402	984
18000-19000	ં. ક	: 54	104	: 64	ં કે	104	164	326	7.6	2034	16076	1672	6. 2	164	492	984
19000-20000	0.1	164	164	104	5.5				7.1	7119	15092	15617	2.5	728	492	820

1200Z

FIGURE B-17-3-D

N (N-Units) 0000Z



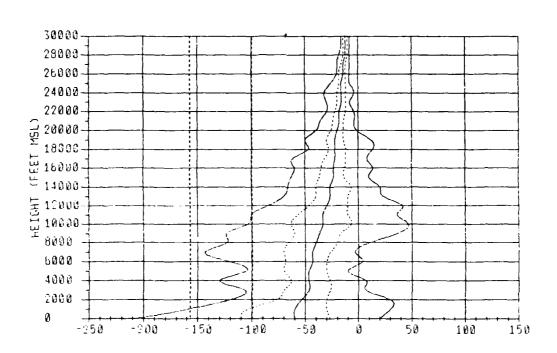
N (N-Units) 1200Z

FIGURE B-17-4-A

GRADIENT PERCENTILES

NO DATA AVAILABLE

DNDH (N-Units/KM) 0000Z



DNDH (N-Units/KM) 1200Z

FIGURE B-17-4-B

0000Z

HOT FT MGL	: 1%	N PERC	ENTILES 50%	90%	ዓ ዋ%	:	17.	DND:	H PERCEN	71LES 90%	99%	.:	PERCENT	OCCURA SALA	ENCE SUF
8FC-500	:259.23	364.36	377.00	387,25	398.52	25-:-	35.37	-155.35	-56.33	-20.83	171.46	-++	16.7 ;	21.1	12.3
	1254.22	354.06	348.88	379.54	390.85	1-15	3.75	-100.33	-60.41	-22.00	していちの	::	5.7 (15.6 :	2.3
1000-1500	1252.40	342.25	250.00	こフい・アラ	385.19	1 6	11.25	-104,25	-60.41	-31.25	4.17	: :	5.0 :	19,2 .	1.5
1500-2000	1248.21	332.24	349.01	361.19				-95.83	-56.25	-29.B7	6. Ÿ 6	. :	2.9 :	10.7 :	1.9
2000-2500	:244.12	323.25	339.54	352.25	371.04		20.42	-77.08	-52.00	-27.06	6.25	: :	0.4 :	4.6	2.7
2500-3000	1240.13	314.29	230.88	343,50	363.13				-50.00	-27.00	4.25	::	9.2	1.7 ;	1.9
2000-2200	1236.10	309.57	322.08	334.69	:50.00		94.58	-64.58	-47.91	-27.0B	8.10		0.0 :	1.0	1.9
3500-4000	1233.01	303.25	316.00	327.19	350.00		12.50		-45.63	-27.08	4.04	::	o.a :	2.1 .	2.1
4000-4500	229.40	294.54	309.00	319.30	336.64			-62.50	-43.83	-26.64	10.42	: •	0.6	1.9	1.7
4500-5000	1226.40	290.11	302.38	312.75	329.34	1-13	22.91	-64.59	-43.75	-25.00	22.91	::	1.7	3.8 :	3.8
5000-4000	1221.44	277.75	291.19	303.06	318.19	(-1)	9.33	-68.75	-43.75	-29.16	-10.42	11	0.0	3.6	1.7
6000-7000	1214.33	262.50	277.00	297.54	304.04	: - 1 :	11.89	-66.66	ー4つ、プラ	-27.06	-8.37		1.0 :	2.5	1.3
700 0-8 000	1207.63	246.59	263.69	274,25	290.82	1-1	:9.84	-43.41	~41.00	-25.00	-2.42	: :	2.3 :	2.8 :	1.7
8000-9000	1201.05	230.62	250.20	261.47	276.99			-40.02	- 39.50	-20.05	16.66	1.1	1.5	ÿ. 4 .	4.4
9000~10000	1195.10	219.20	237.80	249.00	268.09	1-11	13.28	-54.64	-36.71	-10.64	36.71	1.1	1.1 :	4,2	9,2
10000-11000	:189,40	209.40	226.80	238.10	260.94	:-10	30.00	-56.64	-33.35	-13.41	40.10	1:	1.9 :	5.8.	10.9
1000-12000	1183.00	199.20	215.90	227.30	244.21	1 -0	73.36	-50.00	-30. 07	-16.66	23,30	: :	0.8	2.7 :	0.3
2000-13000		190.40	206.90	217.00	229.80	: -0	80.07	-43.36	-29.95	-16.66	23.44	::	0.6	1.5	6.9
3000-14000	1171.70	182.20	198.10	207.40	219.68	: -	69.27	-39.97	-26.69	-10.20	10.00	. :	0.0	9.4	6. 3
14000-15000	1166.09	175.52	199.90	198.20	207.71	; -	64.66	-36.71	-26.56	-12.28	13.67	. :	0.2	0.4	6.2
15000-14000	1141.00	169.71	192.30	190.00	198.02	; -:	56.64	-33.33	-23.44	-13.28	6.64		0,0:	٠.2 :	4.4
16000-17000		163.40	175.00	192.30	189.88	: -	54.99	-33.90	-23,98	-14.06	7.52		0.8	0.6	4.1
17000-18000	1150.90	154.90	167.10	173.90	181.20	1	17.94	-30.00	-22.03	-13.90	8.05	1.1	0.0 (0.2 1	4, 1
18000-19000	1146.10	151.50	159.80	166.33	173.59		30.00	-30.00	-21.95	-17.99	7.97	1.1	0.4	0.2 1	5. 8
19000-20000	:140.78	145.50	152.50	158.50	165.44	; -	47.94	-30.00	-21.95	-13.98	0.00		9.2 :	0.2 :	3. 1
20000-21000	1135.77	140.00	144.20	151,70	156.83		41.95	-24.01	-20.00	-13.98	0,00		0.6	0.4 :	1.8
21000-22000	1131.60	134.90	140.10	145.50	150.50	: -	36.01	-23.98	-18.04	-13.98	-2.98	::	0.0 3	0.0	1.8
22000-23000	1127.45	170.20	154.80	139.40	144.39	1 -	30.00	-21.95	-17.96	-12.03	-2.92	: .	0.0 :	0.0 :	2.2
23000-24000	1123.00	125.40	129.30	133.00	138.45	: -	27.94	-20.00	-16.01	-11.95	-3.98	::	0.2 :	0.00	1.4
24000-25000	1119.00	121.00	124.30	120,10	133.96	1	26.01	~20.00	-15.94	-11.95	-4,01	11	0.4	0.4	2.0
25000-26000	:115.00	114.90	119.70	122.00	126.73		23, 98	-17.94	-14,04	-11.95	-8.00		9.2 (0.0	0.2
24000-27000		113.00	115.40	118.20	120.94	; -	20.00	-16.01	-12.98	-11.92	-7.97	11	0.0	11.5	0.4
27000-28000		108.40	111.00	115.60	115.00		10.04		-13,98	-11.95	-8,05		0.0	0.0	0.0
20000-29000		104.90	104.00	109,00	110.77		17. 44		-12.07	-10.00	-7.99		0.0	0.0	0.3
24000-30000		101.40	103.15	105.00	104.80	· -	14.01	-13.98	-12.07	-10.00	-7.97		0.01	0.00	0.0
30000-31000	: 94.90	79.00	99.60	101.72	102.60		14.04	-12.03	-11.95	-10.00	-7, 97		0,0:	0.0.1	0.2
31000-32000		94.70	46.20	97.90	99.10		16.01		-11.95	-10.00	-7.97	١.	0.0		0.4
32000-33000		91.10	92.60	94.30	95.50		12.03		-10,00	-10.00	-8.03		0.0	0.0	0.0
33000-34000		87.90	89.20	90.60	91.50		13.98		-10,00	-10.00	-9.47	11	0.0	0.0	0.0
				67.40				-11.75							

1200Z FIGURE B-17-4-C B-281

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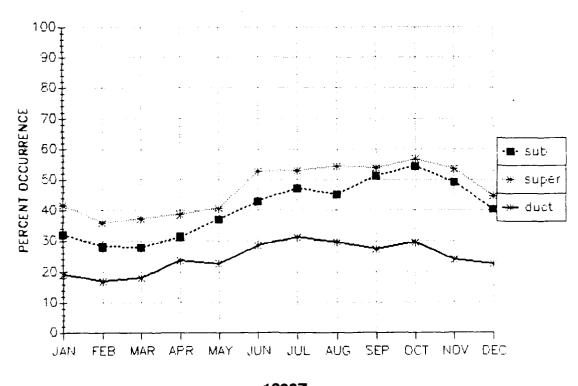
		DUCT	S			SALA	s			NURM	AL			SUB		
BASE			RCENTIL	ES		THE FE	RCENTIO	. ピラ		THE F	ERLENT I	LES			ERLENTIL	
FT MSL	%FRO	1.9%	50%	91,17	%FAQ	10%	50%	30%	%FRO	1995	5%	9) %	1/F4@	10%	50%	90%
SFC-500	15.8	20	20	512	21.1	20	119	5â6	90.2	4.9.2	:0059	34995	13.2	20	98	384
த ்றப≕ பர்க்க	2.7	461	394	541 .	8.2	95	4 - 2	4 ° 6	7.2	45	6644	74561		٧a	44.	984
1000-1500		46	:44	こぞし	10.5	98	295	88 6	14.4	522	17849	34089	0.5	98	294	38 6
1500-2000	1.5	÷₽.	246	497 .	7.8	93	457	524	2.9	1014	11516	35597	1.7	295	291	3047
2000-2500		591	391	571	1.5	∂ @	295	486	2.7	115	20912	13101	1.00	98	641	:280
2500=5000°					6	46	99	147	7	1221	11221	32435	0.0	96	: 46	1181
TOOO SECRE	0.0					591	637	1270 :	1	ψg	11924	32120	○.8	394	1172	1575
3500-4000	8	195	59:	787 .	1.3	98	291	59:	1.1	96	6545	1:628	1.1	48	984	1161
4600-4506	0.2	291	291	591	0.4	- સ્ક	344	591 .	1.3	5807	30742	5105 0 .	o . Σ	886	886	980
4506~5000	1.0	:9"	295	59:	3.6	48	197	າຍ" .	5.5	1087	15125	30546	1.1	118	295	744
5000-6000	· · . 4	295	295	. 95	2.5	98	394	742	5.2	98	4232	29955	0.8	98	. 295	1.778
துருப்பு - இருந்த	1.9	197	794	472	2.7	108	541	759 :	3.1	21.6	エッさらん	29069	0.6	689	984	1576
2000- 8 000	1.9	267	344	492	7.1	98	:94	E1.7	3.4	99	2007	27756	1.2	98	1575	1164
3 500-9000	1.1	78	197	294	4.1	78	-44	640	٥.٥	96	こいもフ	16935 :	3.1	98	シタト	: 969
9000-10000	1.1	197	4-	794	7.1	98	295	650	6.7	98	2756	25720	6.1	98	6411	1:81
10000-11-00		98	197	295	7.6	78	197	492	11.9	98	8957	E4935	6.5	98	492	1280
1.1 1000 - 1.2 mm	0.0	98	98	197	1.5	919	295	794	7.1	98	9613	21852 :	4.4	98	787	1697
12000-17000	· . 6	96	. 9 7	295	1.5	78	197	94	٠. ٦	96	6168	7286B :	3.5	48	767	1675
15000-14000		_			0.4	99	146	197 :	4.0	98	21096	21490	4.4	98	787	14.6
14000-15000	ທີ່ຊ	9€	98	98	0.4	98	197	295	4.6	98	7:98	20801	9	98	49.	1729
15000-16000				· •	0.2	98	48	98	4.4	98	4.66	19856	3.1	98	541	1099
10000-17000	. e	76	164	:64	9.6	164	164	164:	3.3	751	40:9	18714	1.9	112	556	1115
7 mic-180mm	6.24		-	_	ψ. ⊆	:64	:64	164	9	1411	17225	17783	2.9	164	ందిం	Y84
(2000-19000)	0,5	. 94	164	164	0.2	164	164	164	5.0	1509	16404	16897	4.8	154	128	984
19000-20001	0.1	: 64	164	104	0.1	. 64	: 64	164		2.65	3420	15746	4.6	164	574	1146

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FIGURE B-17-4-D B-282 €

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FIGURE B-17-5 B-283

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